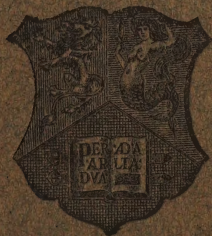


CATALOGUE
OF THE
COLLECTION OF SKULLS AND TEETH
IN THE
ODONTOLOGICAL MUSEUM
OF THE
UNIVERSITY OF BIRMINGHAM.



PUBLISHED BY THE COUNCIL OF THE UNIVERSITY.

AND COMPILED BY

JOHN HUMPHREYS, M.D.S.

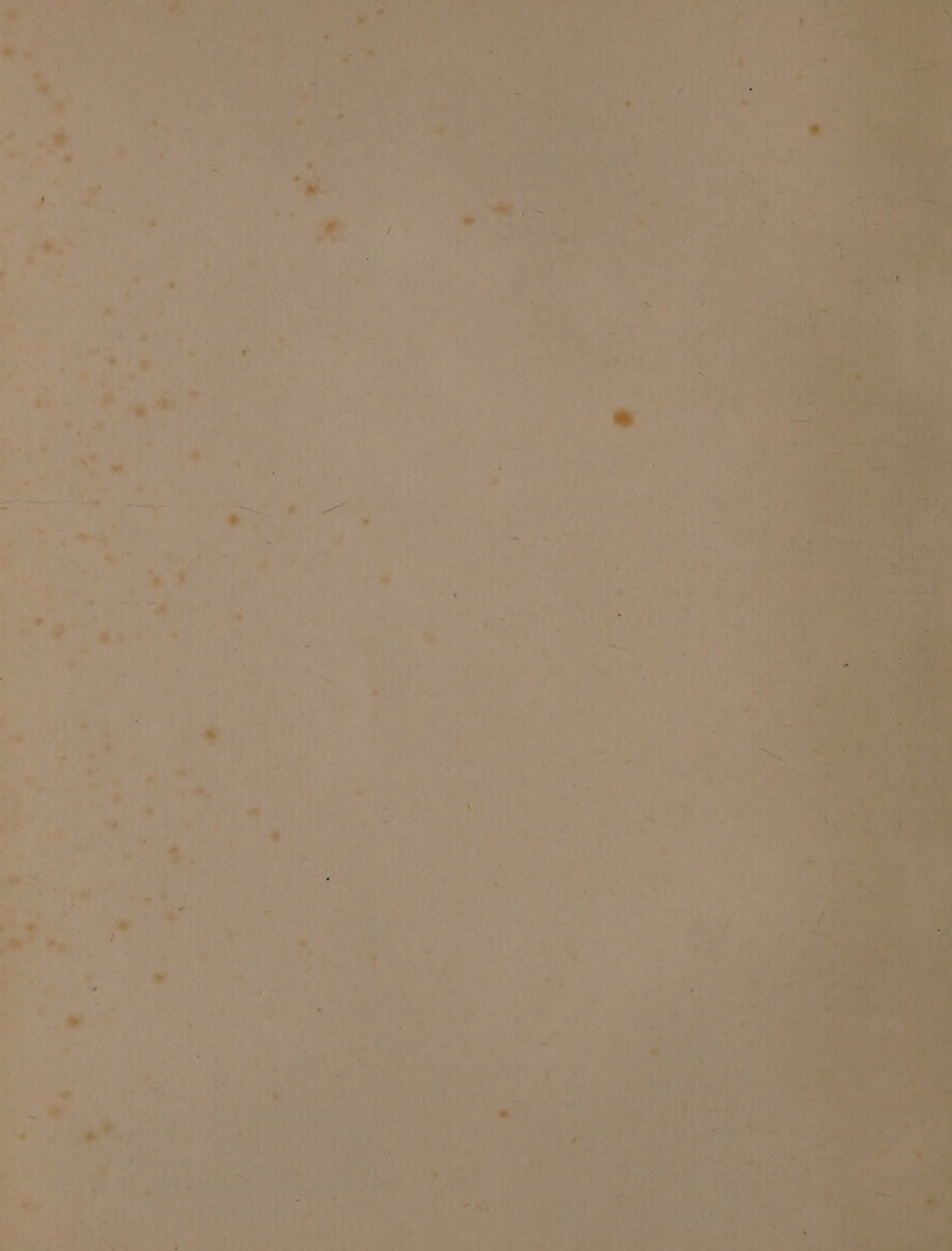
D

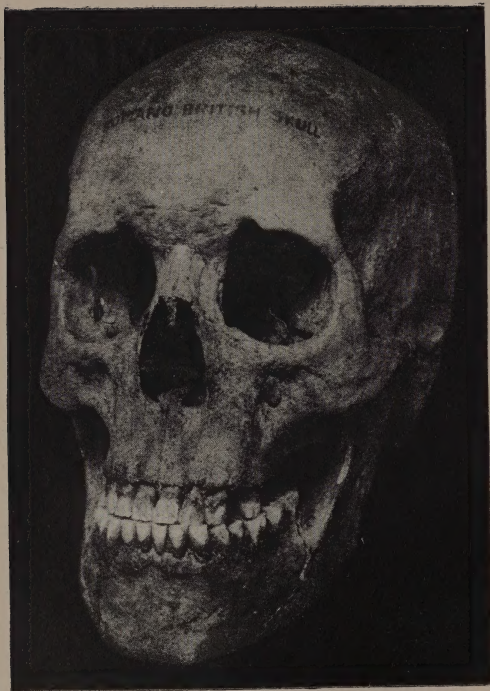


22101904686

Med

K49442





617—ROMANO BRITISH SKULL.

CATALOGUE
OF THE
COLLECTION OF SKULLS AND TEETH
IN THE
ODONTOLOGICAL MUSEUM
OF THE
UNIVERSITY OF BIRMINGHAM.



PUBLISHED BY THE COUNCIL OF THE UNIVERSITY,

AND COMPILED BY

JOHN HUMPHREYS, M.D.S.

Birmingham
Cornish Brothers Limited Publishers to the University
39 New Street
1916

24 471 302



WELLCOME INSTITUTE LIBRARY	
Coll.	we!MOmec
Call	
No.	WU

PREFACE.

The principal purpose of this collection has been to establish a Museum equipped for the study of Odontology. It was likewise attempted to record the evolution of vertebrate life throughout geological time by means of teeth, which have fortunately been preserved as fossils, when frequently the bony structures had perished.

The student will thereby be helped to understand the evolution of the dental tissues, as well as of the forms of life in the various geological epochs, in fishes, reptiles, and mammals, and will be enabled to appreciate the importance of teeth in the struggle for existence, and to recognise the changes wrought by altered environment.

The specimens are arranged in their natural orders and families.

This work would not have been possible but for the generous and constant kindness of friends in many parts of the world, whose valuable help is gratefully acknowledged.

The contents of the mechanical cases have been contributed and arranged by Mr. A. E. Donagan, and form a complete series in illustration of mechanical dentistry.

JOHN HUMPHREYS.

May 1st, 1916.

CONTRIBUTORS OF SPECIMENS.

BERLYN, MR. ABRAHAM.....	<i>South Africa.</i>
BOULTON, PROFESSOR	<i>Birmingham.</i>
BOWATER, SIR WILLIAM	<i>Birmingham.</i>
BRIDGE, PROFESSOR	<i>Birmingham (late).</i>
BROWNE, MR. A. R.	<i>British East Africa.</i>
BUTLER, MR. ARNOLD	<i>Barnt Green.</i>
COOPER, MR. CLAYTON	<i>Edgbaston.</i>
DAMAN, MR. CARL	<i>Kidderminster (late).</i>
DIXON, MRS. CHARLES	<i>Surrey.</i>
DONAGAN, MR. A. E.	<i>Birmingham.</i>
ELLIS, MR. WILLOUGHBY	<i>London.</i>
EDWARDS, MR. GEORGE.....	<i>Solihull.</i>
GROVE, MR. H.	<i>Wolverhampton.</i>
HARRIS, MR. D. T.	<i>Erdington.</i>
HARRISON, MR. FRANK	<i>Canada.</i>
HOWELL, REV. JOHN	<i>Kinshasa, Congo Belge.</i>
HUMPHREYS, MR. JOHN.....	<i>Birmingham.</i>
HUMPHREYS, MR. J. L.	<i>Trengganu, Malay States.</i>
HUXLEY, MR. FRANK	<i>Leominster.</i>
KIRK, DR.....	<i>University of Pennsylvania.</i>
KNEALE, DR. COOLE	<i>Birmingham.</i>
MARSON, MR. CYRIL	<i>Stafford.</i>
MIDLAND INSTITUTE COUNCIL	<i>Birmingham.</i>
NATURAL HISTORY MUSEUM TRUSTEES,	
S. KENSINGTON	<i>London.</i>
PADMORE, MR. DOUGLAS	<i>Birmingham.</i>
PARKER, MR. ADAMS	<i>Birmingham (late).</i>
PARROTT, MR. ERNEST.....	<i>Solihull.</i>
PEARSALL, MR. BOOTH.....	<i>Dublin (late).</i>
RICHARDS, MR. F. W.	<i>Birmingham.</i>
SAUNDBY, PROFESSOR.....	<i>Birmingham.</i>
SHAW, REV. ARCHIBALD	<i>Southern Soudan.</i>
SIMS, MR. AND MRS. CHARLES	<i>Birmingham (late).</i>
THOMPSON, PROFESSOR PETER	<i>Birmingham.</i>
TILLEY, MR. W.	<i>Harborne.</i>
WILLS, MR. LEONARD	<i>Birmingham.</i>
WINDLE, SIR BERTRAM	<i>University College, Cork.</i>
WHITE, MR. C. B.	<i>Blama, Sierra Leone.</i>
WHITTLES, MR. J. DENCER	<i>Birmingham.</i>
YEATES, DR.	<i>Birmingham.</i>
VICTORIA INSTITUTE	<i>Worcester.</i>

PART I.

Case I.

SKULLS AND TEETH OF MAMMALS.

Class : PROTOTHERIA, OR ORNITHODELPHIA.

NO.	NAME.	LOCALITY.	DONOR.
1	Spiny Ant Eater..... <i>Echidna</i>	Australia	Mr. J. Dencer Whittles
2	Duck-billed Platypus <i>Ornithorhynchus anatinus</i>	"	" "
3	" " " "	"	" "
4	" " " "	"	" "

Class : METATHERIA, OR DIDELPHIA.

MARSUPIALIA.—Marsupials.

5	Opossum	<i>Didelphys marsupialis</i>	N. America ..	Mr. John Humphreys
6	Bandicoot	<i>Perameles gunni</i>	Australia ..	" "
7	Cuscus	<i>Phalanger maculatus</i>	"	" "
8	Grey Cuscus	<i>Phalanger orientalis</i>	"	" "
9	Phalanger	<i>Trichosurus</i>	"	" "
10-11	Koala, Australian Bear	<i>Phascolarctus cinereus</i>	"	" "
12-13	Wallaby	<i>Macropus</i>	"	" "

Class : EUTHERIA.

Order : EDENTATA.

14-15	Armadillo	<i>Dasypus</i>	S. America ...	Mr. John Humphreys
16-17	Sloth	<i>Bradypus</i>	"	" "

Order : CETACEA.

CETACEANS.

18	Porpoise	<i>Phocæna communis</i>	N. Europe ...	Mr. John Humphreys
19	Dolphin	<i>Delphinus delphis</i>	"	" "
20-1-2	Sperm Whale	<i>Physeter macrocephalus</i>	Indian Ocean	" "
23	Fossil Whale	<i>Balænodon</i> (Red Crag.)	England	" "
24	Whalebone plate	<i>Balæna</i>	"	" "

Order : **UNGULATA.**

Hoofed Animals.

Sub. Order : **ARTIODACTYLA.**

Even-toed Ungulates.

NO.	NAME.		LOCALITY.	DONOR.
25	Peccary	<i>Dicotyles</i>	N. America...	Mr. John Humphreys
26	Pig, Young	<i>Sus scrofa</i>	England	" "
27	Boar, Canine	" "	" "	" "
28	Wart Hog.....	<i>Phacochoerus</i>	E. Africa.....	" "
29-30	Hippopotamus	<i>Hippopotamus amphibius</i> ..	" "	" "
31	Babirusa	<i>Babirusa alfurus</i>	Celebes	" "
32	Boar, Indian	<i>Sus cristatus</i>	India	" "
33-34	Wart Hog.....	<i>Phacochoerus</i>	E. Africa.....	" "
35	Ox	<i>Bos</i> —Lower anterior teeth..	England	" "
36	Ox	<i>Bos</i> —Section of Molar	" "	" "
37-38	Sheep	<i>Ovis</i>	" "	" "
39	Antelope	<i>Antilopus</i>	S. Africa	" "
40	Chevrotain	<i>Tragulus</i>	Malaya	" "
41	Guanaco	<i>Lama huanacus</i>	S. America ..	" "

Sub. Order : **PERISSODACTYLA.**

Odd-toed Ungulates.

41	Tapir	<i>Tapirus indicus</i>	E. Indies.....	Mr. John Humphreys
42	Rhinoceros	<i>Rhinoceros</i>	E. Africa.....	" "
43-4	Horse.....	<i>Equus caballus</i>	England	" "
45	"	" Section of incisor..	" "	" "
46	"	" Functionless 1st premolars ...	" "	" "

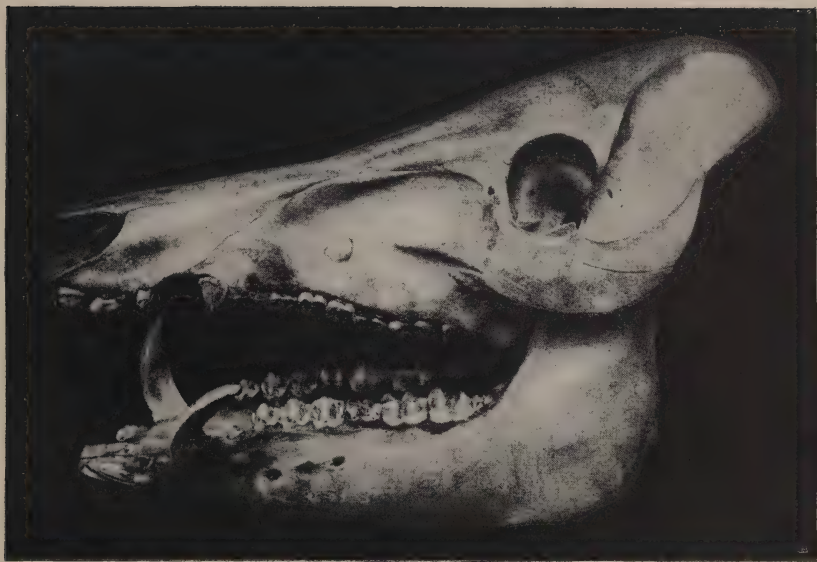
Sub. Order : **HYRACOIDEA.**

47	Hyrax	<i>Procavia Syrica</i>	Syria	Mr. John Humphreys
----	-------------	------------------------------	-------------	--------------------

Sub. Order : **PROBOSCIDEA.**

PROBOSCIDEANS.

48	Indian Elephant	<i>Elephas indicus</i>	India	Mr. John Humphreys
48A.B.	Indian Elephant	" sections of molars	" "	" "
49	African Elephant	" <i>africanus</i>	Africa	" "
50	Indian Elephant	" <i>indicus</i>	India	Mr. J. Dencer Whittles



1077—BOAR, MALAY. *Sus cristatus*.

NO.	NAME.	LOCALITY.	DONOR.
51	African Elephant <i>Elephas africanus</i>	Africa	Mr. John Humphreys
52	African Elephant " " temporary tusk ..	"	Mr. J. Dencer Whittles
53	Mastodon, American ... <i>Mastodon americanus</i> , cast ..	N. America	Mr. John Humphreys
54	" " " " molar ..	"	" "
55	" English " <i>Borsoni</i> , cast	Suffolk	" "
56	Dinotherium <i>Dinotherium giganteum</i> , <i>Pliocene</i>	Germany.....	" "

Sub. Order : RODENTIA.

RODENTS.

56A	Rat, English	<i>Mus decumanus</i>	England	Mr. John Humphreys
56B	Australian Water Rat ...	<i>Hydromys chrysogaster</i>	Australia.....	Sir Bertram Windle
56C	Guinea Pig	<i>Cavia cutleri</i>	Guinea	Mr. John Humphreys
56D	Purple Squirrel	<i>Sciurus indicus</i>	India	" "
56E	Porcupine	<i>Hystrix cristata</i>	S. Europe	" "
56F	Rabbit	<i>Lepus cuniculus</i>	England	" "
56G	Beaver	<i>Castor fiber</i>	N. America...	" "
56H	Paca.....	<i>Cælogenyx paca</i>	S. America ...	" "
56I	Hare	<i>Lepus europæus</i>	England	" "
56J	Rabbit	" <i>cuniculus</i> , with abnormal incisors	"	" "
56K	Viscacha	<i>Lagostomus viscacha</i>	S. America ...	" "

Sub. Order : INSECTIVORA.

57	Fruit eating Bat	<i>Pteropus medius</i>	Malaya	Mr. John Humphreys
58	English Bat	<i>Vesperuga noctula</i>	Britain	" "
59	Shrew	<i>Sorex araneus</i>	"	" "
60-1	Mole	<i>Talpa europæa</i>	"	" "
62-3	Hedgehog	<i>Erinaceus europæus</i>	"	" "
64	Tenrecs	<i>Centetes ecaudatus</i>	Seychelles ...	Mr. Frank Harrison

Order : CARNIVORA.

65	Tiger	<i>Felis tigris</i>	India	Mr. John Humphreys
66	Dog	<i>Canis familiaris</i>	Britain	" "
67	Polar Bear	<i>Ursus maritimus</i>	Arctic regions	" "
68	Aard Wolf	<i>Proteles cristatus</i>	S. Africa	" "
69	Fox	<i>Canis vulpes</i>	Britain	" "

NO.	NAME.		LOCALITY.	DONOR.
70	Dog	<i>Canis familiaris</i>	Britain	Mr. John Humphreys
71-2	Cat	<i>Felis catus</i>	"	" "
73	Lynx	<i>Felis lynx</i>	Europe	" "
74	Kitten	<i>Felis catus</i>	"	" "
75	Ferret	<i>Mustela putorius</i>	Britain	" "
76	Mongoose	<i>Herpestes ichneumon</i>	India	" "
77	Polecat	<i>Mustela putorius</i>	Britain	" "
78	Foussa	<i>Cryptoprocta ferox</i>	Madagascar ..	" "
79	Stoat	<i>Mustela erminea</i>	Britain	" "
80	Genet	<i>Genetta vulgaris</i>	S. Europe ..	" "
81	Weasel	<i>Mustela vulgaris</i>	Britain	" "
82	Stoat	<i>Mustela erminea</i>	"	" "
83	Otter	<i>Lutra vulgaris</i>	"	" "
84	Walrus	<i>Trichechus rosomarus</i>	"	" "
85	Seal	<i>Phoca vitulina</i>	"	" "
86	Dugong	<i>Halicornia dugong</i>	Australia	Mr. A. R. Brown
87	Marten	<i>Mustela martes</i>	Britain	Mr. John Humphreys
87A	Badger	<i>Meles taxus</i>	"	" "
88	Coati	<i>Nasua rufa</i>	S. America ...	" "

Order : PRIMATES.

LEMURS. MONKEYS. MAN.

89-90	Lemur	<i>Lemur varius</i>	Madagascar ..	Mr. John Humphreys
91	Capuchin Monkey	<i>Cebus capucinus</i>	S. America ...	" "
92-3	Macaque Monkey	<i>Macacus nemestrinus</i>	India	" "
94	Baboon, Female	<i>Cynocephalus porcarius</i>	S. Africa	" "
95	" Male	" "	"	Mr. A. Berlyn
96	" "	" "	"	Mr. John Humphreys
97	Vervet Monkey	<i>Cercopithecus lalandi</i>	"	" "
98	Anthropoid Ape	<i>Dryopithecus fontani</i> , Miocene cast	France	" "
99	Man, Pleistocene	<i>Pithecanthropus erectus</i> , Java casts, Molars	Java	" "
100	Man's Dentition .....	.....	.....	" "
101	" "	Showing crowns .....	.....	Mr. J. Dencer Whittles
102	" "	" roots .....	.....	Mr. John Humphreys
103	" "	" pulp chambers .....	.....	Mr. J. Dencer Whittles
104	Primitive Monkey	<i>Macropithecus Markgrafi</i> , cast Oligocene	Fayum, Egypt	Mr. J. Humphreys
105	" Anthropoid Ape	<i>Parapithecus Fraasi</i> , cast...	" "	" "
106	" " "	<i>Propliopithecus Hæckeli</i> , cast	" "	" "



105—PRIMITIVE ANTHROPOID APE. *Parapithecus Fraasi*.



627A—MANDIBLE.

Dinka Tribe, S. Soudan, front 6 teeth always removed
in men for ornament.

NO.	NAME.	LOCALITY.	DONOR.
107	Human Dentition	Upper jaw, adult	Mr. J. Humphreys
108	" "	" deciduous, child, 7th year	" "
109	" "	Lower mandible, adult	" "
110	" "	" child, 7 years	" "
111	" "	at birth	" "
112	" "	"	Mr. C. Daman.
113	Heidelberg Man	Lower jaw, cast, Pleistocene gravels Heidelberg . . .	Mr. John Humphreys
114	Human Dentition	Upper and lower jaws, showing occlusion Peterborough	" "
115	Skull and Mandible	European	" "
116	Gorilla	<i>Gorilla savagei</i> W. Africa . . .	Sir Bertram Windle
117	Orang utan	<i>Simia satyrus</i> E. Asia . . .	" "
118	Chimpanzee	<i>Anthropopithecus troglodytes</i> W. Africa . . .	Mr. C. B. White
119	" half mandible	" " " "	" "
120	Pitldown Man	Half mandible, cast, Pleistocene Pitldown, Sussex . . .	Mr. John Humphreys
121	Man	Half mandible	" "

Case II.

MAMMALS.

Order: PRIMATES.

LEMURIDÆ.

122-3	Lemur	<i>Lemur varius</i>	Madagascar . .	Mr. John Humphreys
-------	-----------------	-------------------------------	----------------	--------------------

PLATYRRHINE MONKEYS.

124	Golden Marmoset	<i>Midas chrysoleucas</i>	S. America . . .	Sir Bertram Windle
125	Spider Monkey	<i>Ateles ater</i>	"	" "
126-7	Capuchin Monkey	<i>Cebus capucinus</i>	"	" "
127A-B	Teetee	<i>Callithrix moloch</i>	"	" "

CATARRHINE MONKEYS.

Cercopithecidæ.

128	African Baboon	<i>Cynocephalus porcarius</i>	S. Africa . . .	Mr. John Humphreys
129	Mandrill, Male	" <i>Maimon</i>	"	" "
130-1	" Female	" " " "	"	" "

NO.	NAME.	LOCALITY.	DONOR.
132	Baboon	<i>Cynocephalus porcarius</i> S. Africa	Mr. A. Berlyn
133	"	" <i>babouin</i>	" "
134-5	"	" deciduous teeth	Mr. John Humphreys
136	" Male	"	" "
137-148	Macaque Monkey	<i>Macacus radiatus</i> Borneo	" "
148A	Cercopithecus	<i>Cercopithecus cynomolgus</i> .. Johore	Mr. J. L. Humphreys
149	Vervet Monkey	" <i>lalandi</i>	Mr. John Humphreys
150	Guenon	" <i>guenon</i>	" "

SEMNOPIITHECIDÆ.

151-6	Semnopithecus	Mr. John Humphreys
156A	" <i>Semnopithecus obscurus</i>	Malay States Mr. J. L. Humphreys
157	Howling Monkey <i>Stenor chrysurus</i>	India
		" "

SIMIIDÆ—ANTHROPOID APES.

159	Gorilla, Female	<i>Gorilla Savagei</i> W. Africa	Sir Bertram Windle
-----	-----------------------	--	--------------------

HOMINIDÆ.

160	Human Dentition	Mr. C. Daman
161-3	„ foetal skull	„ „
164	„ mandible	„ „
165	„ „	Mr. John Humphreys
166	Superior Maxilla 6 years	„ „
166A	„ „ 4 years	„ „
167	Mandible 4 years	„ „
168	„ 5 years	„ „
169	„ 18 months	„ „
170	„ Adult.....	„ „
171	„ 10 years	„ „
172-3	„ Adult.....	„ „
174-5	„ Old age	„ „
175A	„ „ female	„ „
176-7	„ Adult.....	„ „
178	„ „ from stone coffin .. Stamford	Mr. Ernest Parrott
178A	Human foetal mandible 6 months, in glass jar.....	Mr. C. Daman
178-B	Horizontal Section across Palate Birth	„ „

Order : CARNIVORA.

179	Hyæna	<i>Hyæna vulgaris</i> S. Africa	Mr. John Humphreys
180	Black Bear	<i>Ursus torquatus</i> Himalayas ...	" "
181	Hyæna	<i>Hyæna vulgaris</i> S. Africa	" "



619—CHIMPANZEE. *Anthropopithecus troglodytes*

NO.	NAME.	LOCALITY.	DONOR.
182	Polar Bear	<i>Ursus maritimus</i>	Arctic regions Mr. John Humphreys
183	" "	" "	" "
184	Japanese Black Bear..	" <i>japonicus</i>	Japan
185	Cave Bear.....	" <i>spelæus</i>	S. Devon.....
186	Hyæna	<i>Hyæna vulgaris</i>	S. Africa
187	Leopard	<i>Felis pardus</i>	"
188	Tiger	" <i>tigris</i>	India
189	Lion	" <i>leo</i> (on loan)	S. Africa
190	Tiger	" <i>tigris</i>	India
191	Black Bear	<i>Ursus torquatus</i> (young)	Himalayas ...
192	Ichneumon	<i>Herpestes ichneumon</i>	Malaya Mr. J. L. Humphreys
193	" "	" "	Spain Mr. John Humphreys
194-5-6	Seal	<i>Phoca vitulina</i>	Arctic Ocean..
197	Black Bear	<i>Ursus torquatus</i>	Himalayas ...
198	Cheetah	<i>Cynælurus jubatus</i>	India
199	Leopard	<i>Felis pardus</i>	"
200	Puma	" <i>concolor</i>	S. America ...
201	Lynx	" <i>canadensis</i>	Canada
202	Mongoose	<i>Herpestes ichneumon</i>	India
203-4	Badger.....	<i>Meles taxus</i>	Britain
205	Otter	<i>Lutra vulgaris</i>	"
206	Jackal, Indian	<i>Canis aureus</i>	India
207-8	Dog	" <i>familiaris</i>	Britain
209	Bull-dog	" "	"
210	Pug-dog	" "	"
211	Dog	" " milk dentition	"
212-13-14	Fox	" <i>vulpes</i>	"
214A	Walrus	<i>Trichechus rosmarus</i> (canine)	Arctic regions
215	Fox	<i>Canis vulpes</i>	Canada
216-17	Grey Fox.....	" <i>lagopus</i>	"
220-1	Fox	" <i>vulpes</i>	Britain
222	Dog	" <i>familiaris</i>	"
223	Prairie Dog	" <i>latrans</i>	N. America...
224	Otter	<i>Lutra vulgaris</i>	Britain
225-6	Ichneumon	<i>Herpestes griseus</i>	India
227	Dog	<i>Canis familiaris</i> , milk dentition	Britain
228-9-30	Palm Civet	<i>Paradoxurus leucomystax</i> ...	Borneo
231-2	Pine Marten	<i>Mustela americana</i>	N. America...
233-4	Beech Marten	" <i>foina</i>	China.....
235	Polecat	" <i>putorius</i>	N. Britain...
236-7	Ferret	" "	"

NO.	NAME.	LOCALITY.	DONOR.
241-2	Stoat	<i>Mustela erminea</i>	N. Britain.... Mr. John Humphreys
243	Kitten	<i>Felis domestica</i> , milk teeth ..	" "
244	Coati mundi	<i>Nasua rufa</i>	S. America ... " "
245	Civet Cat.....	<i>Viverra civetta</i>	Africa
246	Genet	<i>Genetta vulgaris</i>	S. Europe ... " "
247	Stoat	<i>Mustela erminea</i>	Britain
248	Lynx, Persian.....	<i>Felis caracal</i>	Persia
249	Puma	" <i>concolor</i>	S. America ... " "
250	Seal	<i>Phoca vitulina</i>	N. Europe.... " "
251	Badger.....	<i>Meles taxus</i>	Britain
252	Puma	<i>Felis concolor</i>	S. America ... " "
253	Cat	" <i>domestica</i>	Britain
254	Civet Cat.....	<i>Viverra civetta</i>	S. Africa " "
255	Leopard	<i>Felis pardus</i> , canines	" " " "
256	American Cat	" <i>Geoffroyi</i>	S. America ... " "
257-60	Cat	" <i>domestica</i>	Britain
260A	Aard Wolf	<i>Proteles cristatus</i>	S. Africa " "

Order : RODENTIA.

261-2	Spotted Cavy	<i>Cælogenys paca</i>	S. America ... Mr. John Humphreys
263	Beaver	<i>Castor fiber</i>	Canada
264	Rat	<i>Mus decumanus</i>	Britain " "
265	Water Rat, Australian	<i>Hydromys chrysogaster</i>	Australia.... Sir Bertram Windle
266	Rabbit	<i>Lepus cuniculus</i>	Britain
267	Hare	" <i>timidus</i>	" " "
268	Rabbit and Squirrel ..	Dentitions of	" " "
269	Viscacha	<i>Lagostomus viscacha</i>	S. America ... " "
270	Guinea Pig	<i>Cavia porcellus</i>	B. Guiana ... " "
271-2-3	Squirrel, Indian	<i>Sciurus indicus</i>	India
274	" English	" <i>bicolor</i>	Britain
275-6	Rabbit	<i>Lepus cuniculus</i>	" " "
277-8-9	"	" with abnormal incisors	" " "
280-1-2-3	Porcupine	<i>Hystrix cristata</i>	Malaya
284	Spotted Cavy	<i>Cælogenys paca</i>	S. America ... Mr. John Humphreys
285	Coypu	<i>Myopotamus coypu</i>	" " "
286	Field Mouse	<i>Mus arvensis</i>	Britain
286A	Rabbit	<i>Lepus cuniculus</i> , abnormal teeth	" " "



637--WART HOG, *Phacochoerus*.

Order : INSECTIVORA.

NO.	NAME.	LOCALITY.	DONOR.
287-8-9-90	Fruit Bat	<i>Pteropus medius</i>	Malaya Mr. J. L. Humphreys
291-2	Hedgehog	<i>Erinaceus europæus</i>	Britain Mr. John Humphreys
293-4	Mole	<i>Talpa europæa</i>	" " "
295-6	Shrew	<i>Sorex vulgaris</i>	" " "

Class : PROTOTHERIA, OR ORNITHODELPHIA.

297-8	Duck-billed Platypus	<i>Ornithorhynchus anatinus</i> ,	casts, Australia.....	Mr. John Humphreys
299	" "	" "	dentition "	" "

Order : EDENTATA.

300	Armadillo	S. America ...	Mr. John Humphreys
347	Sloth	<i>Cholæpus</i>	" "

Order : CETACEA.

301 to 307A	Sperm Whale	<i>Physeter macrocephalus</i>	Pacific Ocean	Mr. John Humphreys
308-8A	Dolphin	<i>Delphinus delphis</i>	Britain	" "

Sub. Order : HYRACOIDÆ.

309-346	Coney or Rock Rabbit	<i>Hyrax capensis</i>	S. Africa	Mr. John Humphreys
310	" "	" syriacus	Syria	" "

Order : UNGULATA.

Ungulata Vera.

Sub. Order : ARTIODACTYLA.

311-2	Hippopotamus	<i>Hippopotamus amphibius</i> ..	S. Africa	Mr. John Humphreys
313-4—345	Boar	<i>Sus scrofa</i>	Britain	" "
315-6-7-8-9	Hippopotamus	<i>Hippopotamus amphibius</i> ..	S. Africa	" "
320	Wart Hog	<i>Phacochoerus africanus</i>	"	" "
323	Indian Pig	<i>Sus cristatus</i>	India	" "
324	Peccary	<i>Dicotyles</i>	S. America ...	" "
325	Babirusa	<i>Babirusa alfurus</i>	Celebes	" "

Family: CAMELIDÆ.

NO.	NAME.	LOCALITY.	DONOR.
326	Guanaco	<i>Auchenia huanacus</i> Peru	Mr. John Humphreys

Family: TRAGULIDÆ.

327-8	Chevrotain	<i>Tragulus chevrotain</i> Malay States..	Mr. J. L. Humphreys
329-30-30A	Muntjac.....	<i>Cervulus muntjac</i> " " "	" " "

Families: CERVIDÆ AND BOVIDÆ.

331	Calf	<i>Bos</i> , with cleft palate	Mr. John Humphreys
332	Blaubok.....	<i>Hippotragus leucophaeus</i> ... S. Africa	Mr. Abraham Berlyn
333	Antelope	<i>Antilopus</i> "	Mr. John Humphreys
334	Dwarf Antelope ...	" "	" "
335	Deer	<i>Cervus capreolus</i> Britain	" "
336	Antelope	<i>Antilopus</i> S. Africa	" "
337-8	Deer	<i>Cervus</i> Borneo	" "
339-40	Sheep	<i>Ovis</i> Britain	" "
341	Antelope	<i>Antilopus</i> S. Africa	" "
342	Cow	<i>Bos</i> Britain	" "
343	"	" developing teeth	" "
344	Lamb	<i>Ovis</i> , foetal jaws.....	" "

Sub. Order: PERISSODACTYLA.

348-9-50	Rhinoceros	<i>Rhinoceros bicornis</i> East Africa ..	Mr. John Humphreys
351	Horse.....	<i>Equus caballus</i> Britain	" "
352	Palæotherium	<i>Palæotherium magnum</i> , cast ..	" "
353	Elephant	Tusk, showing repair of ivory after injury	Mr. Padmore
354-55A to 355E	"	" " "	"
355 to 355E	Elasmotherium....	Casts of Molars	Mr. John Humphreys

Class: METATHERIA, OR DIDELPHIA.

MARSUPIALS.

356 to 359	Great Woolly Kangaroo	<i>Macropus rufus</i> Australia.....	
360 to 362	Wallaby	" minor.....	"
363, 365 to 7	Koala	<i>Phascolarctus fuscus</i> ..	"
368 to 371	Opossum	<i>Didelphys marsupialis</i> ..	N. America... Mr. John Humphreys
372	Vulpine Phalanger	<i>Phalanger vulpina</i>	Australia
373	Cuscus	" cookii	"
374	Flying Phalanger	<i>Petaurus australis</i>	"
375	Kangaroo Rat	<i>Hypsiprymnus</i>	"
376 to 8	Bandicoot	<i>Perameles</i>	"

Case III.

FISHES.

NO.	NAME.	LOCALITY.	DONOR.
379	Ray <i>Zygobatis</i> , dental plates	Britain	Mr. John Humphreys
380	Dog Fish <i>Scyllium canicula</i>	"	" "
381	Australian Mudfish .. <i>Ceratodus forsteri</i>	Australia.....	" "
382	Sea Horse <i>Hippocampus abdominalis</i> ..	Britain	" "
383	Ray, female <i>Raia batis</i> , dentition	"	" "
384	Ray <i>Ætobatis</i> , dental plates	"	" "
385	Shark <i>Lamna</i> , dentition	"	" "
386	Ray <i>Myliobatis</i> , dental plates ...	"	" "
387	Shark <i>Lamna</i> , dentition	"	" "
388	Pipe Fish <i>Syngnathus acus. edentulous</i> ..	"	" "
390	Thornback Ray <i>Raia clavata</i> , skin tubercles..	"	" "
391	Shark <i>Lamna</i> , jaws and teeth	"	" "
392	Ray, male <i>Raia batis</i> , jaws and teeth	"	" "
393	Saw Fish <i>Pristis</i> , rostral teeth	"	" "
394	Fossil Shark <i>Carcharodon</i>	Virginia.....	Mrs. Charles Dixon
395	Thornback Ray <i>Raia clavata</i> , dermal spines ..	Britain	Mr. John Humphreys
396	Sea Bream <i>Brama</i> , molariform teeth ..	"	" "
397	Sheep's Head Fish ... <i>Sargus ovis</i>	"	" "
398	Chub <i>Leuciscus cephalus</i> , pharyngeal teeth	"	" "
399	Shark <i>Lamna</i> , reserve teeth	"	" "
400	Skate <i>Raia batis</i>	"	" "
401-2	Gilt Head <i>Chrysophrys aurata</i>	"	" "
403	Parrot Fish <i>Pseudo scarus</i> , beak-like teeth	Britain	Mr. John Humphreys
404	Angler Fish <i>Lophius piscatorius</i>	"	" "
405	Globe Fish <i>Diodon maculatus</i>	"	" "
406	Port Jackson Shark ... <i>Cestracion Philipi</i>	Australia.....	" "
407	Indian Chub <i>Leuciscus</i> , pharyngeal teeth	India	Mr. A. E. Donagan
408	Angler Fish <i>Lophius piscatorius</i>	Britain	Mr. John Humphreys
409	Sea Wolf <i>Anarrhichas lupus</i>	"	" "
410	Gar Fish <i>Belone vulgaris</i>	"	" "
411	Pike <i>Esox lucius</i>	"	" "
412-3	Australian Lung Fish <i>Ceratodus forsteri</i> , casts	Australia	" "
414	Hake <i>Merlucius vulgaris</i>	Britain	" "

REPTILIA.

415-24	Sphenodon Lizard <i>Hatteria or Tuatera</i>	New Zealand	Mr. John Humphreys
416	Cobra <i>Naia tripudians</i>	India	" "

NO.	NAME.	LOCALITY.	DONOR.
417	Puff Adder	<i>Crotho arietans</i>	S. Africa Mr. John Humphreys
418	" "	" reserve poison fangs	" " " "
419-21-22	Python	<i>Python</i> , non-venomous snake	Africa
420-3	Crocodile, young	<i>Crocodilus</i>	Africa
425	Iguana Lizard	<i>Iguana tuberculata</i>	Mexico
426	Alligator	<i>Alligator Mississippiensis</i> ..	N. America... ..
427	Caiman	<i>Caiman sclerops</i>	Central America ..
428	Turtle	<i>Chelone</i> , edentulous	S. America
429-30	Crocodile	<i>Crocodilus malayanus</i>	Malaya

FOSSIL SHARKS.

431	Shark	<i>Hemipristis Miocene</i>	S. Carolina ... Mrs. Charles Dixon
432-3	"	<i>Odontaspis elegans</i>	" " " "
434-5-6-7-	"	<i>Otodus obliquus</i>	" " " "
438 to 446	"	<i>Carcharodon megalodon</i>	" " " "

ABNORMAL HUMAN TEETH.

447	Central Incisor, with deflected root	Mr. John Humphreys
448	Gemination of lower temporary canine and lateral Incisor	" "
449	" supernumerary teeth	" "
450	" permanent lower lateral Incisors	" "
451	" upper centrals, and lower lateral Incisors	" "
452-4	Incisor, lateral with deflected root	" "
453	Supernumerary, lateral with deflected root	" "
455-6	Canine, lateral with deflected root	" "
457-8-9-60-1	" with bifurcated root	" "
462-3	Bicuspid, with deflected root	" "
464-5-6-7-8	Bicuspid, showing variation in roots	" "
469-70-1-2-3-4-5	" 1st upper, with three roots resembling Ape	" "
476	Bicuspid, injury to developing crown	" "
477 to 90	Supernumerary Teeth	" "
491 to 506	Wisdom Teeth (upper), variations in forms	" "
507 to 13	" " roots	" "
514 to 15	Molars, temporary, embracing crowns of Bicuspids	" "
516 to 19	Enamel Buds on roots	" "
520 to 38	Molars, lower, abnormal roots	" "
539 to 44	Teeth with incomplete roots	" "
544 to 48	Molars, lower, abnormal roots	" "



1085—CROCODILE. *Crocodilus africanus*.

FOSSIL FISHES AND TEETH.

NO.	NAME.	LOCALITY.	DONOR.
545	Ganoid Fish (enamel scaled) <i>Pholidophorus</i> , Lias	Britain	Mr. John Humphreys
546	„ „ <i>Cælodus gyroides</i> , palatal teeth (cast)	„ „ „ „	„ „
547	Cestracient Shark <i>Acrodus anningiæ</i> , Lias (cast)	„ „ „ „	„ „
548	„ „ <i>Strophodus medius</i> (cast), Coal Measures	Mt. Lebanon „ „	„ „
549	Vertebrate Fish <i>Eurypholis Boissieri</i> Cretaceous	„ „ „ „	„ „
550	Ganoid Fish <i>Dapedius</i> , Lias	Lyme Regis .. „ „	„ „
551	Bony plated Fish <i>Bothriolepis</i> , Old Red Sandstone (cast)	Canada	„ „
552	Ganoid Fish <i>Pycnodus platessus</i> , Lias (cast)	England	„ „
553	Cestracient Shark <i>Acrodus nobilis</i> , Lias (cast) ..	Lyme Regis .. „ „	„ „
555	Bony plated Fish <i>Cephalaspis Lyelli</i> , Devonian (cast)	Scotland	„ „

FOSSIL REPTILES (CASTS).

556	Fossil Reptile <i>Cynognathus crateronotus</i> , Trias, with theriodont teeth	S. Africa	Sir William Bowater
557	„ „ <i>Ælurosaurus felinus</i>	„ „ „ „	„ „
558	„ Bird <i>Odontopteryx</i> , with serrated beak, London Clay	Sheppey	„ „
559	„ Reptile <i>Placodus gigas</i> , Muschelkalk Trias, with palatal teeth	„ „ „ „	„ „
560-1	Marine Lizard <i>Ichthyosaurus</i> , Lias	Lyme Regis ..	Mr. John Humphreys
562	Pterodactyle <i>Pterodactylus crassirostris</i> , Cretaceous	Solenhofen ..	Sir W. Bowater
563	Lizard <i>Hyperodapedon gordonii</i> , Trias Elgin, with palatal teeth	„ „ „ „	Sir W. Bowater
564	„ <i>Cyamodus laticeps</i> , Muschelkalk, with palatal teeth	Bayreuth ..	„ „

FOSSIL TEETH

FROM KENTS CAVERN, TORQUAY.

Pleistocene.

565 to 71	Cave Hyæna <i>Hyæna spelæa</i>	Mr. Willoughby Ellis
572-74	Cave Bear <i>Ursus spelæus</i>	„ „
573-77	Woolly Rhinoceros .. <i>Rhinoceros tichorhinus</i>	„ „
575-6	Horse, Wild <i>Equus</i>	„ „
578	Casts of Molars of Ungulates to illustrate the evolution of crowns	Sir W. Bowater

Case IV.

Sub. Order : PROBOSCIDEA.

ELEPHANTS AND MASTODONS.

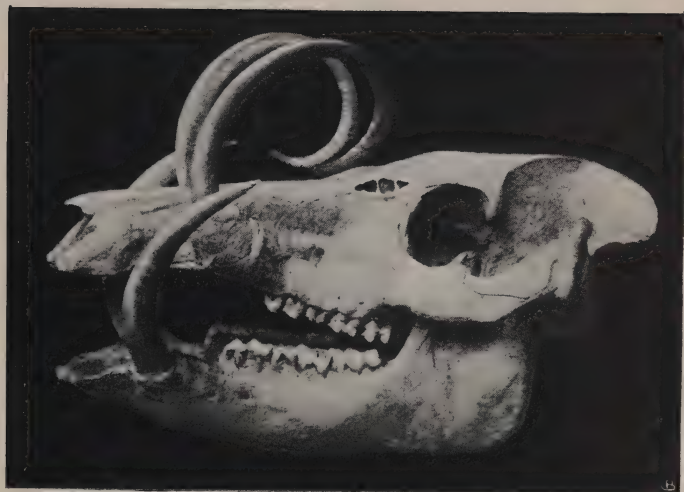
NO.	NAME.		LOCALITY.	DONOR.
579-80	Elephant, Asiatic	<i>Elephas asiaticus</i>	India	Dr. Coole Kneale
581 to 83	" Malay	"	Malay States	Mr. J. L. Humphreys
584-5	" Indian	"	India	Mr. John Humphreys
586	" American ..	" <i>Columbi</i>	Peru	" "
587	" Mammoth or Hairy	" <i>primigenius</i> , Tusk	Behrings Strait	Mrs. Chas. Dixon
588	Mastodon, American	<i>Mastodon americanus</i>	N. America ..	" "
589-90	Elephant, African	<i>Elephas africanus</i>	Africa	Mr. John Humphreys
591-2-2A	" Mammoth	" <i>primigenius</i>	Dogger Bank	" "
593-4	" "	" "	Behrings Strait	Mrs. Chas. Dixon
595	" Indian, fossil	" <i>hysudricus</i>	Siwalik Hills, India	Mr. John Humphreys
596	" "	" <i>planifrons</i>	" "	" "
597	" Mammoth	" <i>primigenius</i>	Virginia.....	" "
598	" English, Early Pleistocene	" <i>antiquus</i>	Barrington, Cambridge ..	" "
599-600	" Mammoth	" <i>primigenius</i>	Britain	" "
601	" "	" "	Behrings Strait	Mrs. Chas. Dixon
602	" Malay	" <i>asiaticus</i>	Malay States	Mr. J. L. Humphreys
603-4	" English Pliocene	" <i>meridionalis</i>	Britain	Mr. John Humphreys
605-6-7-8-9	" Indian	" <i>asiaticus</i>	India	Mr. J. Dencer Whittles
610 to 13	" Malay	" "	Malay States	Mr. J. L. Humphreys
614	Titanotherium	<i>Titanotherium</i> , Eocene	N. America...	Mrs. Charles Dixon

Case V.

Order : PRIMATES.

ANTHROPOID APES AND MAN.

NO.	NAME.		LOCALITY.	DONOR.
615	Gorilla	<i>Anthropopithecus gorilla</i> ...	W. Africa	Sir Bertram Windle
616	"	" " cast	" "	" "
617	Romano British Skull		Britain	Mr. F. W. Richards
618	South Sea Islander		South Seas ...	Mr. J. Dencer Whittles



634-5—BABIRUSA. *Sus babirusa*.

NO.	NAME.	LOCALITY.	DONOR.
619	Chimpanzee	<i>Anthropopithecus troglodytes</i> , male Sierra Leone..	Mr. C. B. White
620-1-2-3	"	" " young " "	" "
624	Orang utan	<i>Simia satyrus</i>	Borneo Mr. John Humphreys
625-6	"	" young	" " "
627	Mandible	Young Roman girl, 8 years.....	Sir Whitworth Wallis
627A	"	Dinka tribe, S. Soudan, front 6 teeth always removed in men for ornament	Rev. Archibald Shaw

Order : CARNIVORA.

628	Tiger	<i>Felis tigris</i>	India Mr. John Humphreys
631	"	" "	Malay States Mr. J. L. Humphreys
633D	"	" " young, with milk teeth	" " "
629-30	Lion	" <i>leo</i>	S. Africa Mr. John Humphreys
633c	"	" "	" " "
632	Leopard	" <i>pardus</i>	" " "
633	Bear, Malayan	<i>Ursus Malayanus</i>	Malay States Mr. J. L. Humphreys
633A	" Black, Indian ..	" <i>nigra</i>	India Mr. John Humphreys
633B	Seal	<i>Phoca vitulina</i>	Britain " "

Order : UNGULATA.

634-5	Babirusa	<i>Sus babirusa</i>	Celebes Mr. John Humphreys
636	Boar, Malayan.....	<i>Sus longirostris</i>	Malay States Mr. J. L. Humphreys
637	Wart Hog.....	<i>Phacochoerus</i>	E. Africa..... Mr. John Humphreys
638-9	Muntjac.....	<i>Cervulus Muntjac</i>	Malay States Mr. J. L. Humphreys
639A	Sheep	<i>Ovis</i>	Britain Mr. John Humphreys
639B	Boar	<i>Sus scrofa</i> , lower jaw	" " "
639C	Boar, Indian	<i>Sus cristatus</i>	India Prof. Peter Thompson

Case VI.

MISCELLANEOUS.

NO.	NAME.	LOCALITY.	DONOR.
640-41	Elephant, African ... <i>Elephas africanus</i> , lower jaw		Mr. J. Dencer Whittles
642	Albatross..... <i>Edentulous bills</i>		Mr. John Humphreys
643	Rattlesnake..... <i>Crotalus horridus</i>	N. America...	" "
644	Elephant, Indian <i>Elephas asiaticus</i> (young)...	India	Mr. J. Dencer Whittles
645	Vulture	<i>Edentulous bills</i>	Mr. John Humphreys
645A	Cormorant	" "	" "
646	Dugong	<i>Halicore dugong</i>	India Ocean ..
647	Saw Fish	<i>Pristis</i> , rostral appendage	Mr. John Humphreys
648	Bony Pike..... <i>Lepidosteus</i>	N. America...	Prof. Bridge
649	Globe Fish	<i>Tetrodon</i>	Mr. John Humphreys
649A	Hydrocyon, Congo Fish	<i>Hydrocyon</i> , head	River Congo
649B	" " " "	jaws and teeth	"
			Mr. D. T. Harris

Case VII.

CASTS OF HUMAN ABNORMAL DENTITIONS.

UPPER JAW.

NO.	NAME.	DONOR.
649c	One Supplemental permanent lateral incisor .. left	Mr. John Humphreys
650-1	" " " " " right	" "
652	" " " " " left	" "
653	Two " " " " left and right	" "
654 to 7	One " " " " right	" "
658	" " " " " left	" "
659	Two " " " " left and right	" "
660	One " " " " left	" "
661-4-7	Two " " " " left and right	" "
662-5-6-8	One " " " " left	" "
663-71	" " " " " right	" "
669-70	" " " " " left	" "
671	Two " " " " behind incisors	" "

LOWER JAW.

672	One Supplemental permanent lateral incisor ..	right	Mr. John Humphreys
673-4	Two " " " " " making dentition I. 3.3	left and right	" "

DECIDUOUS DENTITION.

NO.	NAME.	DONOR.
675	Supplemental incisor, teeth in series, its presence unsuspected	Mr. John Humphreys
676-7	" " " " " "	" "
678	Two " " making In. 3.3	" "
679-80	One " " followed by (see 81)	" "
681	Permanent " " occupying place of deciduous predecessor..	" "

CONICAL SUPERNUMERARY TEETH.

682	Conical Supernumerary Tooth behind central incisor	Mr. John Humphreys
683	Two " " " one between central incisor	" "
684	One " " " behind central incisor	" "
685	" " " " displacing central incisors	" "
686	" " " " between central incisors	" "
687	Right lateral incisor, and conical supernumerary	" "
688	Left " " " " " "	" "
689	Molariform Supernumerary	" "
690	Conical " " " " " "	" "
691	Conical teeth replace lateral incisors (degradation)	" "
692	One Conical Supernumerary behind central incisors	" "
693	Two " " " producing distortion	" "
694 to 7	One " " " behind right central incisor	" "
698	Two " " " between central incisors	" "
699	Large Molariform Supernumerary and Conical Do.	" "
700	Conical Supernumerary between central incisors	" "
701 to 7	Two " " " " " "	" "
708	Left central incisor replaced by conical tooth	" "
709	Conical Supernumerary, in median line	" "
710	Molariform " " " " " "	" "
711 to 14	Conical " " " behind central incisors	" "
715-6-7	Two " " " displacing central incisors	" "
718 to 29	One " " " " " "	" "
730	Central incisors absent, replaced by three large molariform supernumeraries	" "
731-2	Conical supernumerary and supplemental lateral incisor	" "
733-4	Two molariform supernumeraries, behind central incisors	" "

Case VIII.

HUMAN DENTAL ABNORMALITIES.

NO.	NAME.	DONOR.
735	Two supplementary lower canines	Mr. Booth Pearsall.
736	Six premolar teeth, left upper, and supernumerary tooth behind left upper central incisor	Mr. John Humphreys
737	Supplemental right upper premolar	" "
738	Two supplemental, one right and left, premolars	" "
739-40	Supplemental molar, left upper	" "
741	Absence of right upper lateral incisor	" "
742	" " " " canines and premolars.....	" "
743	" all permanent lower teeth except molars	" "
744 to 51	" upper laterals	" "
752-56A	" right upper laterals, left conical	" "
753	" both laterals.....	" "
754	" left upper canine.....	" "
755-6	" first upper premolar	" "
757	" second lower premolars	" "
758	" two right upper premolars	" "
759	" second upper premolars, retention of deciduous canines	" "
760-1	" lateral incisors, centrals and canines are conical.....	" "
761A	"f lateral incisors and premolars, and molars excepting one pair	" "
762-3	Retention of deciduous molars	" "
765-6-7	Malposition of lower central incisors	" "
768-9	" upper incisors, erupting in median line	" "
770	" right central incisor	" "
771 to 88	" incisors	" "
786A	" canine	" "
789	" upper bicuspid	" "
790	Retention of deciduous canine	" "
791 to 6	Absence of incisors	" "
797-8-9	Malformation of incisors	" "
800-1	Gemination of deciduous incisors	" "
802	" canine and bicuspid	" "
803	" permanent incisors	" "
804	Dentition of Zulu (cast)	Mr. J. Dencer Whittles
805	Edentulous upper jaw of Negress, aged 75	" "
806-7-8	Typical Dentition of European	Mr. John Humphreys
809	Mandible of dwarf	Mr. Chas. Sims
810 to 13	V-shaped arches	Mr. J. Dencer Whittles
814 to 17	Saddle-shaped arches	" "

NO.	NAME.	DONOR.
818	Contracted arches	Mr. J. Dencer Whittles
819	Stomatitic teeth	" "
820	Hypertrophied alveolar border	" "
821	Malformed premolar	" "

Case IX.

DENTAL ABNORMALITIES.

822 to 5	Irregularities of upper incisors	Mr. J. Dencer Whittles
826 to 31	" " canines	" "
832 to 8	" " front teeth	" "
839	Abnormally large incisors	" "
840-1	Casts showing treatment for anterior protrusion	" "
842 to 6	Upper and lower jaws of dwarf	" "
847 to 9	Casts showing expansion of palate	" "
850 to 4	" " treatment of irregularities	" "
855-6	" " pyorrhœa alveolaris	" "
857	" " treatment for irregularities	" "
858	" " " " contracted arch	" "
859	" " " " superior protrusion	" "
860-1	Right upper central erupting in sulcus	" "
862	Tardy eruption of third upper molar	" "
863	Superior incisors with raised cingula	" "
864	Abnormally large central incisors	" "
865	" " laterals, with enlarged cingula	" "
866	Minute lower teeth	" "
867	Suppression of left upper lateral, the right conical	" "
868	Conical lateral incisors	" "
869	Retention of deciduous teeth	" "
870 to 9	Malposition of canines	" "
880	Retention of deciduous canines	" "
881 to 9	Malposition of premolars	" "
890 to 7	Conical incisors	" "
898-9	Supplemental lateral incisors (large)	" "
900	Stunted central incisor	" "
901	Molariform central incisor	" "
902	Crowded lower teeth owing to retention of milk teeth	" "
903	Late eruption of canine at 55	" "
904	" " " " under denture	" "
905	Malposition of canines	" "
907-11	" " third molar	" "

NO.	NAME.	DONOR.
908	Malposition of incisor	Mr. J. Dencer Whittles
909-10	Stunted and displaced molars	" "
906	Space between bicuspidis owing to retention of milk molars.....	" "
912	Incisors worn by erosion	" "
913	Supernumerary conical molar	" "
914	Late eruption of right central incisor at 13	" "
915	Enlarged cingula on incisors and canines	" "
916-17	" " "	" "
918	" " canine	" "

Case X. PATHOLOGICAL.

919-20-1	Case of alveolar abscess and raised sinus	Mr. J. Dencer Whittles
992	Epulis attached to superior maxilla	" "
923	Hypertrophied periosteum	" "
924-5	Cleft of hard and soft palate	" "
926	" soft palate	" "
927	" hard palate (syphilitic).....	" "
928	" hard and soft palate	" "
929	Epulis attached to mandible	" "
930	Syphilitic teeth	" "
931-2	Erosion of teeth	" "
933-4	Osteomata.....	" "
935	Sarcoma in antrum	" "
936	Injury to palate by kick of horse	" "

Case XI. PATHOLOGICAL, ETC.

937 to 40	Salivary calculus	Mr. John Humphreys
941	Teeth embedded in salivary calculus	" "
942-6	Sequestrum from abscess	Mr. H. Grove
943-4	Impacted wisdom teeth	Mr. R.W. Clayton Cooper
945	Absorption of roots	Mr. John Humphreys
948	Cast of dentigerous cyst	Mr. Chas. Sims
949	Contents of dentigerous cyst (denticles)	Mrs. Chas. Sims.
950	Exfoliation of anterior portion of upper jaw, resulting from measles..	Mr. Adams Parker

NO.	NAME.	DONOR.
951	Absorption of roots in deciduous teeth	Mr. H. Grove
952	Alveolar abscess	" "
953	Exostosis of roots and alveolus	" "
954	Exostosis uniting roots of molars	" "
955	Odontome	" "
956 to 9	Exostosis of roots	" "
964	Exostosis of roots	" "
961	Arrested development of enamel	" "
962-3	Erosion	" "
971	Exostosis in roots of premolars of sheep	Dr. Yeates

ABNORMALITIES.

947	Lower molars with three roots	Mr. John Humphreys
960	Canine molars with two roots	Mr. H. Grove
960A	Bicuspid, first upper, with abnormal roots	" "
965	Abnormal roots	" "
966	Central incisor filed for ornament by natives of Congo Belge, W. Africa	Rev. John Howell
967	Development of Crowns by raising of cingulum	Mr. John Humphreys
968	" roots in first upper bicuspid	" "
969	Abnormal roots in molars	" "
970	Bicuspid, first upper, with three roots (like ape)	" "
972	Milk molars	" "
973	Geminated teeth	" "
974	Models of upper molars carved in ivory, the work of American dental students	Mr. Booth Pearsall
975	Models of central incisors carved in ivory, the work of American dental students	" "

HUMAN TEETH.

976-7	Bicuspid, upper	Mr. John Humphreys
978-9	Incisors "	" "
980	Canines "	" "
981-2-3	Molars "	" "
984-5-6	" lower	" "
987-8	Bicuspid "	" "
990-1	Incisors "	" "
992-3	Canines "	" "
989	Extra Cusps	" "
993	Canines, deciduous, ...	" "
994-5	Molars " lower	" "
996	Incisors " upper	" "
997	Canines " "	" "
998	Molars " "	" "

Case XII.

FISHES.

NO.	NAME.	LOCALITY.	DONOR.
999-1000	Saw Fish <i>Pristis</i>	Britain	Mr. Frank Huxley
1000A	„ „	„	Dr. Robt. Saundby
1001	Barbel <i>Barbus vulgaris</i>	„	Mr. John Humphreys
1002	Chub <i>Leuciscus</i>	„	„ „
1003	Hake <i>Gadus</i>	„	„ „
1004	Haddock „	„	„ „
1005	Skate <i>Raia batis</i> , female	„	„ „
1006	Shark, Fossil <i>Oxyrhina</i> , Miocene	„	Victoria Institute, Worcester.
1006A	„ „ <i>Otodus</i> , Red Crag.....	„	„ „
1007	Pike <i>Esox lucius</i>	„	Mr. John Humphreys
1008	Eel <i>Anguilla vulgaris</i>	„	„ „
1009-10	Indian Ocean Fish .. with prehensile teeth	Indian Ocean	„ „
1011-13	Barracuda <i>Sphyræna</i>	W. Indies	„ „
1012	Pike <i>Esox lucius</i> , gill teeth	Britain	„ „
1014-5-6	Skate <i>Raia batis</i> , male and female. „	„	„ „
1017	Unknown Fish.....	„	„ „
1018-20A-B	Shark <i>Lamna</i>	Britain	„ „
1019	Garfish <i>Belone vulgaris</i>	„	„ „
1020	Sturgeon <i>Acipenser sturio</i> , bony plates of „	„	„ „
1021	Ray <i>Raia batis</i> , female	„	„ „

REPTILES.

1021A	Python <i>Python</i>	Africa	„ „
1022	Snake, Australian, non-venomous .. <i>Aglypha</i>	Australia.....	„ „
1023 to 26	Marine Lizard <i>Ichthyosaurus</i> , Lias	Britian	Mr. W. Tilley
1027	Turtle <i>Chelone</i> , horny jaws	„	Mr. John Humphreys
1028	Iguana Lizard <i>Iguana</i>	Mexico	„ „

1029 to 56	Bridges, Crowns, and Fillings the work of American dental students	U.S.A.	Mr. Booth Pearsall
1059	Dental Key	„	Mr. George Edwards
1060	Dental Elevator.....	„	„ „

Case XIII.

SKULLS.

NO.	NAME.	LOCALITY	DONOR.
1062-64	Walrus <i>Trichechus rosmarus</i>	Arctic Ocean	Mr. John Humphreys
1062A-63	Hippopotamus <i>Hippopotamus amphibius</i> ..	Africa	" "
1065	Child, 6 years with temporary dentition		
1066	Red Deer <i>Cervus elaphus</i>	Britain	Mr. John Humphreys
1067	Horse..... <i>Equus caballus</i> , aged	"	" "
1068	Ass..... " <i>asinus</i>	"	" "
1069	Camel <i>Camelus</i>	Egypt	" "
1070	Ox <i>Bos</i>	Britain	" "
1071	Rhinoceros <i>Rhinoceros africanus</i>	Africa	" "
1072	Dugong <i>Halicore dugong</i>	Australia.....	" "
1073	Walrus <i>Trichechus rosmarus</i>	Arctic Ocean	" "
1074	Manatee <i>Manatus</i>	Indian Ocean	" "
1075	Tapir <i>Tapirus americanus</i>	Brazil	" "
1075A	" " <i>indicus</i> , young	Sumatra	Mr. J. L. Humphreys
1076	Pig <i>Sus scrofa</i>	Britain	Mr. John Humphreys
1077	Boar, Malay " <i>cristatus</i>	Malaya	Mr. J. L. Humphreys
1078-9	" " " <i>longirostris</i>	"	" "
1080	" Java " <i>javanicus</i>	"	" "
1081	Wart Hog <i>Phacochoerus</i>	E. Africa.....	Mr. John Humphreys
1082	Goat <i>Capra</i>	Britain	" "
1083	Ox <i>Bos</i>	"	" "
1083A	Antelope <i>Antilopus</i>	Africa	" "
1084	Dolphin <i>Delphinus</i>		Council of the Midland Institute.
1085	Crocodile <i>Crocodilus</i>	R. Congo	Rev. John Howell
1086	" "	Malay States	Mr. J. L. Humphreys
1087	Deer <i>Cervus</i>	Britain	Mr. John Humphreys
1088	Hyæna, Cave <i>Hyæna spelæa</i>	"	" "
1089	Anthracotherium .. <i>Anthracotherium</i> , cast	"	" "
1090-1	Duck-billed Platypus <i>Ornithorhynchus anatinus</i>	Australia.....	" "
1092	Globe Fish <i>Tetrodon</i>		" "
1092A	Antelope <i>Antilopus</i>	R. Congo	Rev. John Howell
1092B	Boar, Malayan <i>Sus cristatus</i>	Malay States	Mr. J. L. Humphreys

Case XIV.

FOSSIL TEETH IN GEOLOGICAL TIME.

FISHES.

NO.	NAME.	LOCALITY.	DONOR.
1093-5	Ray <i>Myliobatis Dixoni</i> , Eocene..	Bracklesham	Mr. John Humphreys
1094	„ <i>Ætobatis</i> , dental plate „ ..	„	„
1100	„ <i>Myliobatis</i> , Red Crag	Suffolk	„
1102	„ „ Miocene.....	Patagonia ...	„
1152	„ <i>Ptychodus</i> , Chalk	Maidstone ...	„
1098-99	Shark <i>Edaphodon</i> , Red Crag	Suffolk	„
1103	Gilt Head <i>Chrysophrys</i>	„	„

REPTILES.

1101	Crocodile	<i>Crocodylus Hastingsiæ</i> , Oligocene	Hordwell, Hampshire	Mr. John Humphreys
„	„	<i>Diplocynodon nanjoniensis</i> ..	„	„

MAMMALS.

1096-7	Menodus	<i>Titanotherium</i> , Oligocene ...	Dakota, U.S.A.	Mrs. Chas. Dixon
1104	Whale	<i>Balænodon</i> , Miocene	S. Carolina ...	Mr. John Humphreys
1105	„	„ Red Crag	Suffolk	„
1116	„	<i>Squalodon</i> , Red Crag	„	„
1132	„	<i>Balænodon</i> , Red Crag	„	„
1106	Palæotherium	<i>Palæotherium</i> , Eocene	Montmartre, Paris	„
1107-11	„	„ „	N. America ..	„
1108 to 10	Hypotamus	<i>Hypotamus vectianus</i> , Eocene	I. of Wight ..	„
1112	Tapir, English	<i>Tapirus priscus</i> , Red Crag ..	Suffolk	„
1113-19	Mastodon	<i>Mastodon avernensis</i> , Red Crag	„	„
1157	„	„ <i>Borsoni</i> , cast, „	„	„
1115	Cænotherium	<i>Cænotherium</i> , Oligocene	France.....	Trustees of British Museum
1117	Hyænarctos	<i>Hyænarctos insignis</i> , casts, molar, Red Crag	Suffolk	„
1118	Deer	<i>Cervus suttonensis</i> „	Suffolk	„
1120	Anthracotherium ..	<i>Anthracotherium</i> , cast of molar Miocene.....	France.....	„
1121-2-3	Hippopotamus	<i>Hippopotamus sivalensis</i>	Siwalik Hills, India	„
1124	Sivatherium	<i>Sivatherium</i> , section molar	„	„



638—MUNTJAC. *Cervulus Muntjac*.

NO.	NAME.	LOCALITY.	DONOR.
1125	Cave Bear..... <i>Ursus spelæus</i> , canine, Pleistocene	Kents Cavern, Torquay ..	Mr. Willoughby Ellis
1127	" <i>Ursus spelæus</i> , incisor	"	" "
1126-30-31	Cave Hyæna <i>Hyæna spelæa</i>	"	" "
1128-41	Red Deer <i>Cervus elaphus</i> , Pleistocene	Barrington, Cambridge	Mr. John Humphreys
1129	Elk " <i>canadensis</i>	"	" "
1136	Reindeer " <i>tarandus</i> , Pleistocene	Suffolk	" "
1137	Elk, English <i>Alces macklis</i> , Pleistocene ..	Britain	" "
1133-4	Ox, Wild, British .. <i>Bos primigenius</i> , Pleistocene	Thames Valley	" "
1142	" " " " " "	Clapton	" "
1153	" " " " " "	Yorkshire	" "
1135	Woolly Rhinoceros <i>Rhinoceros tichorhinus</i> , Pleistocene	Thames Valley	" "
1145	" " " " " "	Barrington ...	" "
1158	" " " " " "	Bury	" "
1138	Horse, Wild <i>Equus</i> , Pleistocene	Freshford ...	" "
1139	" " " " " "	Bedford	" "
1140	" " " " " "	Walthamstowe	" "
1148	" American " " " "	S. Carolina ..	" "
1143	Boar, Wild <i>Sus scrofa</i> ..	Suffolk	" "
1144-6-7	Hippopotamus <i>Hippopotamus amphibius</i> , Pleistocene	Barrington ...	" "
1154-5	" " " " " "	"	" "
1149-50	Bison <i>Bison priscus</i> , Pleistocene ..	"	" "
1151	Elasmotherium <i>Elasmotherium sibiricum</i> , cast molar, Pleistocene ..	Siberia	" "
1156	Rhinoceros <i>Rhinoceros merckii</i> , Pleistocene	Wiesbaden ..	" "

Case XV.

FOSSIL TEETH IN GEOLOGICAL TIME.—FISHES AND REPTILES.

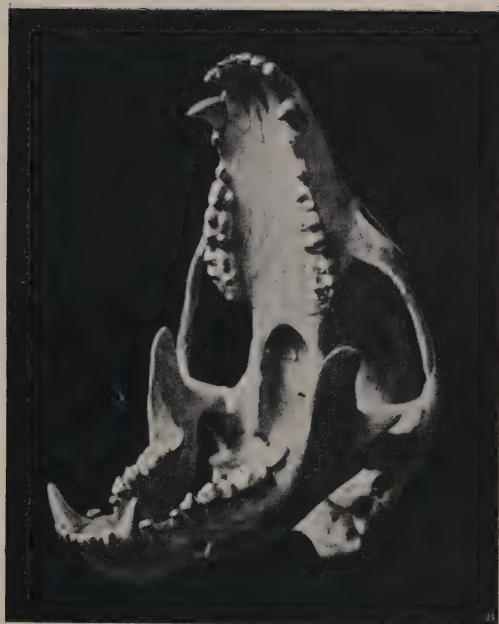
FISHES.

NO.	NAME.	LOCALITY.	DONOR.
1159	Teeth and Spines of Fish from Upper Ludlow beds, Silurian	Ludlow	Mr. John Humphreys
1160-1-2	Ganoid Fish, enamel scaled <i>Rhizodus Hibbertii</i> , Carboniferous measures	Edinburgh	" "
1163-4-5	" " <i>Megalichthys</i> " "	" "	" "
1166-7	Shark, Primitive Cestracient <i>Diplodus</i> " "	" "	" "

NO.	NAME.	LOCALITY.	DONOR.
1168	Ray <i>Psammodus</i> , Carboniferous measures	Armagh....	Trustees of British Museum
1169	" <i>Copodus spatulatus</i>	Ireland	" "
1172	Shark, Cestraciont.. " <i>planus</i>	"	" "
1170	" " <i>Psephodus magnus</i>	"	" "
1171	" " <i>Orodus ramosus</i>	Cheshire	" "
1173-4	" " <i>Helodus didymus</i>	Limerick	" "
1175	" " <i>Cladodus striatus</i>	"	" "
1176-7-8	" " <i>Strophodus magnus</i>	Forest Marble Gloucestershire	" "
1179	Fish, Ganoid..... <i>Lepidotus</i> , Kimmeridge clay		" "
1180	Shark, Cestraciont.. <i>Strophodus magnus</i> , Oolite ..	Wilts.	" "
1181-2-3	" " <i>Acrodus anningiae</i> , Lias.....	Lyme Regis ..	" "
1184-5	" " <i>Hybodus reticulatus</i> , Lias ...	"	" "
1186	" " <i>Strophodus magnus</i>	Wealden, Bedford ..	" "
1187-8	Fish, Ganoid..... <i>Gyrodus hexagonus</i> , Kimmeridge clay.....	Weymouth ...	" "
1189	" " <i>Pycnodus</i> , Upper Greensand	Isle of Wight	" "
1190-1	" " <i>Hybodus petiolatus</i> , London clay	Sheppey	" "
1192	" " <i>Mesodon Hughii</i> , Soleure Suisse		" "
1193	" " <i>Hybodus</i> , Red Crag	Suffolk	" "
1194	Shark, Cestraciont.. <i>Hybodus</i> , Stonesfield slate		" "
1195	Fish, Ganoid..... <i>Mesodon Damonii</i> , Oolite ...	Portland	" "
1196-7	" " <i>Lepidotus Mantellii</i> , Weald clay	Isle of Wight	" "
1198	" " <i>Sphaerodus gigas</i> , Neocomian	Potton.....	" "

REPTILES.

1198A	Early Reptile	<i>Thecodont</i> , Keuper sandstone	Bromsgrove ..	Mr. Leonard Wills
1199	Saurian Teeth	" Kimmeridge clay		Mr. John Humphreys
1200 to 1204	Marine Lizard	<i>Ichthyosaurus</i> , Lias	Lyme Regis ..	" "
1205	" "	<i>Plesiosaurus</i>	"	" "
1206-7	" "	" Wealden	"	" "
1208	" "	<i>Mosasaurus</i> , Upper Creta- ceous	Britain	" "
1209 to 11	" "	<i>Polyptychodon</i> , Cambridge Greensand	"	" "
1212	Saurian Teeth	Cambridge Greensand	"	" "
1213	Herbivorous Reptile	<i>Iguanodon</i> , a <i>Dinosaurian</i> , Wealden	Hastings	" "
1214	Crocodile	<i>Dakosaurus</i> , lower Greensand	Potton.....	" "
1215	"	<i>Goniophyllis crassidens</i> , Wealden	Isle of Wight	" "



633A—INDIAN BLACK BEAR. *Ursus nigra*.

FISHES.

NO.	NAME.	LOCALITY.	DONOR.
1216	Saurocephalus Upper Greensand	Cambridge ...	Mr. John Humphreys
1217	Ray <i>Ptychodus mammillares</i> ,	Chalk England	" "
1218-9	" " <i>rugosa</i>	" Burham, Kent	" "
1220-4	Shark, Predatory .. <i>Corax falcatus</i>	" Britain	" "
1221	" " <i>Lamna appendiculata</i> ,	Cambridge Greensand	" "
1225	" " " "	Chalk Dover	" "
1222-3	" " <i>Otodus obliquus</i> ,	Cambridge Greensand	" "
1225A-38	" " <i>Notidanus microdon</i> ,	Chalk.. Dover	" "
1226	" " <i>Ischiodus gigas</i> ,	Stonesfield slate.....	" "
1227-31-31A	" " <i>Lamna elegans</i> ,	Eocene Britain	" "
1228	" " " " Miocene	Patagonia ..	" "
1229	" " " " Barton clay	Britain	" "
1230	" " " " Red Crag ..	Suffolk	" "
1232	" " <i>Otodus obliquus</i> ,	Miocene .. Patagonia ...	" "
1233	" " <i>macroodus</i> ,	London clay Barton	" "
1234	" " <i>obliquus</i> ,	" Sheppey	" "
1235-7	" " " " Red Crag ..	Suffolk	" "
1236	" " <i>macroodus</i> ,	London clay Barton	" "
1239	" " <i>Hemipristis</i> ,	Miocene	Malta.....
1240	" " <i>Galeocerdo</i> , Tertiary Phos-	phates	S. Carolina ...
1241	" " <i>Oxyrhina hastates</i> ,	Miocene Patagonia ...	" "
1242	" " " " Red Crag	Suffolk	" "
1243-5	" " " " Pliocene	Belgium	" "
1244	" " " " Red Crag	Suffolk	" "
1246	" " " " " "	Woodbridge ..	" "
1247-8	" " <i>Carcharodon megalodon</i> ,	Miocene S. Carolina ...	" "
1248A	" " " " Red Crag	England	" "
1249-50-1	" " " " Miocene	Malta.....	" "
1252-3	" " <i>Edaphodon</i>	Eocene England	" "

Case XVI.

TEETH OF PLEISTOCENE MAMMALS ASSOCIATED WITH
PALÆOLITHIC MAN IN ENGLAND.

NO.	NAME.	LOCALITY.	DONOR.
1254	Beaver <i>Castor fiber</i> Pleistocene	Britain	Prof. Boulton
1255 to 1355	Hippopotamus <i>Hippopotamus major</i> ..	Barrington, Cambridge	Mr. John Humphreys
1354 to 1366	Elephant, English <i>Elephas antiquus</i> ..	" "	" "

Case XVII.

TEETH OF PLEISTOCENE MAMMALS ASSOCIATED WITH
PALÆOLITHIC MAN IN ENGLAND.

NO.	NAME.	LOCALITY.	DONOR.
1367 to 1387	Rhinoceros, Woolly <i>Rhinoceros tichorhinus</i> , Pleistocene	Barrington Gravels, Cambridge	Mr. John Humphreys
1388 to 1481	Bison <i>Bison priscus</i> ..	" "	" "
1482	Ox, Wild..... <i>Bos primigenius</i> ..	Clapton	" "
1483 to 1505	Red Deer <i>Cervus elaphus</i> ..	Barrington ...	" "
1506 to 1537	Hyæna, Cave <i>Hyæna spelæa</i> ..	Kents Cavern, Torquay ..	Mr. Willoughby Ellis
1538-40	Rhinoceros <i>Rhinoceros tichorhinus</i> ..	" "	" "
1541	Horse, Wild <i>Equus caballus</i> ..	" "	" "
1550	Elephant <i>Elephas antiquus</i> ..	" "	" "
1551	Teeth in Breccia	" "	" "

ON WALLS AND COUNTER.

1554	Pitldown Man <i>Eoanthropus</i> , Casts of Re- stitution of skull and mandible, in glass case.....		Prof. Peter Thompson
1555	Narwhal <i>Monodon monoceros</i> , tusk ..	Arctic Ocean	Mr. John Humphreys
1556	Saw Fish <i>Pristis</i>	" "	" "
1557	Sturgeon <i>Acipenser sturio</i> , head	Britain	" "
1560	" " " bony plates	" "	" "
1558	Globe Fish <i>Diodon</i>	Mediterranean Sea.....	Mr. Arnold Butler
1559	Skull, Human.....	Disarticulated.	
1561	Springbok	S. Africa	Mr. A. Berlyn
1562	Bushbuck <i>Tragelaphus sylvaticus</i>	" "	" "

NO.	NAME.	LOCALITY.	DONOR.
1563	Horse.....	<i>Equus</i>	Mr. John Humphreys
1563A—B	Hippopotamus	<i>Hippopotamus amphibius</i> ..	R. Congo Rev. John Howell
1563c	Mammoth	<i>Elephas primigenius</i> , tusk, dredged up from Dogger Bank, Dec., 1914.....	Mr. John Humphreys

IN JARS AND BOTTLES OF SPIRITS.

1564-5	Viperine Snake		
1566	Armadillo		
1567	Snakes and Lizards		Mr. John Humphreys
1568	Crocodile	<i>Crocodilus</i> , young	" "
1569	Sea Urchin	<i>Echinus</i> , with horny teeth	" "
1570	Hake	<i>Merluccius vulgaris</i>	Britain " "
1574	Hake	" " " " " " " "	" "
1571-2	Dog Fish	<i>Scyllium canicolum</i>	" " " "
1573	Skate	<i>Raia batis</i>	" " " "
1575	Angler Fish	<i>Lophius piscatorius</i>	" " " "
1576	Night Adder	Natal	" " " "
1577	Rattlesnake	<i>Crotalus horridus</i>	U.S., America Dr. Kirk
1578	Lizard		Mr. John Humphreys
1579	Sand Worm	<i>Nereis</i> , with horny teeth ...	Britain " "

DIAGRAMS AND MICROPHOTOGRAPHS ON WALLS.

1580	Diagram showing calcification of teeth	Mr. J. Dencer Whittles
1581	" illustrating facial angle, dog to man.....	" "
1582	" " prognathism	" "
1583-90	Microphotographs of development of human teeth	Mr. John Humphreys
1591-3	Photographic reproductions of Dr. Cryer's sections of human jaws.....	Mr. J. Dencer Whittles
1593A	Microphotographs of developing tooth germ and dental structures	Mr. Cyril Marson and Mr. F. S. Clark
1594-1595	Diagram showing varieties of dentine	Mr. J. Dencer Whittles
1596	" " " enamel	" "
1597 to 1599	" " development of tooth germ	" "
1600	" " structure of dentine	" "
1601	" " various dental structures	Mr. John Humphreys
1602	" " various mammalian dentitions	" "
1603	" " mechanism of poison fangs in venomous snakes	" "
1604	" " various dental tissues	" "
1605	Microphotograph of tooth germ by Dr. Röse	" "
1606	" pulp	" "
1607	" human molar by Dr. Gysi	" "
1608	" dentine and cement of root by Dr. Gysi...	" "

NO.	NAME.	DONOR.
1609	Microphotograph of longitudinal section of canine, by Dr. Gysi..	Mr. John Humphreys
1610	" dental tubes and interglobular spaces, by Dr. G. Röse	" "
1611	" sections of enamel, by Dr. A. Gysi	" "
1612	" sections of dentine (child)	" "
1613	" sections of root of premolar, by Dr. Röse..	" "

Case XVIII.

MECHANICAL DENTISTRY.

The Work of Mr. A. E. DONAGAN.

1614	Specimens of Dental rubbers.
1615	Plaster of Paris.
1616	Materials used in manufacture of artificial teeth.
1617	Tusk for bone work.
1618-1628	Specimens of Ivory artificial dentures.
1629-30	" " and natural teeth.
1631	" " and early porcelain.
1632	" " dentures with natural set of teeth and springs.
1633	" " and gold denture with tube teeth and springs.
1634	" " denture with tube teeth, etc.
1635	" repair of old gold plate with rivets.
1636-7	" early impression porcelain trays.
1638-13	" " French porcelain teeth.
1639-10	" " English " "
1640	" two sets of natural teeth reminiscent of body-snatching.
1641-2	" impression trays prepared for plaster impression.
1643	" plaster impression in tray.
1644-5	" pair Howell's trays.
1646	" special tray.
1647-8	" pair plaster models.
1649	Plaster Models with cores for undercut teeth.
1650-1	Impressions for casting special trays.
1652	Knowles' swaging flask.
1653	Model coated.
1654	Cast in duplicating composition.
1655	Model with teeth in Spence's metal.
1656-60	Forms of bites in slabs.
1661-2	Methods of flasking.
1663	Three-part flask, showing close bite.
1664-7	Pearsall's casting flask with casts in zinc and Babbit metal.



69—Fox. *Canis vulpes*.

1668-70	Three brass moulds for artificial teeth.
1671	Set of porcelain teeth, unbaked and baked.
1672	Set of new departure teeth.
1673	Two block gold molars filled with lead.
1674	Showing backing of teeth.
1675	Selection of teeth, stained and ground.
1676	Vulcanite regulating denture.
1677	Irregular set, nat. curves.
1678-80	Models set up in wax and also vulcanite base.
1681	Tin plate struck.
1682-4	Vulcanite plates.
1685-95	Vulcanite plates with irregular and stained teeth.
1696	Anatomical set mounted from Geysi's articulator.
1697	Set of Ash's tubeless molars, and dowel crowned fronts in articulator.
1698	Flask and packing.
1699	Tag strengthener for Robbins crowns.
1700	Robbins crowns mounted in plaster.
1701	Same in vulcanite denture.
1702	Upper and lower vulcanite dentures.
1703	Upper denture, porcelain crown and front teeth.
1704-9	Dentures with gum blocks.
1710	Vulcanite and aluminium denture.
1711	Upper denture with metal bite.
1712	Denture, with perforated plate.
1713	Gold and vulcanite denture.
1714	Metal plate strengtheners.
1715	Denture band for bulbous teeth.
1716	Ditto.

Case XIX.

MECHANICAL DENTISTRY.

The Work of MR. A. E. DONAGAN.

1717 to 1729	Wire dentures.
1730	L. denture, all gold.
1731	L. plate, struck and ribbed.
1732	Metal plate and tube teeth.
1732A	Ditto.
1733	Metal and vulcanite denture.
1734-1735	Lower bar denture.
1736	Cast for upper metal denture.
1737-1738	„ lower „ „
1739	Mould for casting denture

1740-1744	Cast lower metal denture.
1742	Aluminium upper plate.
1743-50	Continuous Gum work.
1751	„ „ „ with faults.
1752	Dowel Crowns.
1753	Logan „
1754	Emergency crowns.
1755	Crown with Jugtlerbock's hollow.
1756	Simple crown.
1757	Preparation of root for crown.
1758	Crown and bridge work.
1759	Stages of collar crown.
1760	Series of crowns.
1761	Buttner crown.
1762	Leon Williams crown.
1763	Gold bicuspid crown.
1764	Lennox caps, with impression.
1765	Soldering Pins, „
1766	Mellot's method of casting.
1767	Pins for two-rooted bicuspid.
1768	Tube molar crown.
1769	Crown with Logan slide.
1770	Steele's facing.
1771	Ash's facing.
1772	Canine crown to carry bands.
1773	Crown made with Lennox matrix.
1774	Repair with Bryant's screws.
1775	Impression in dental lac, with dies in Spence metal.
1776	Crown and bridge work, badly fitting.
1777	Impression in Rhodes' crown tray.
1778	Models in illustration of above.
1779	Bridge with metal inlay.
1780-2	Gunning's interdental splints.
1783	Hammond's splint.
1784-5-6	Ottolengui's splint.
1787-90	Dentures after excision of superior maxilla.
1791	Denture to repair injury to temporo-maxillary joint
1791A	Model before operation of above.
1792	Suerson's obturator.
1793-5	Dentures with suction discs.
1796	Pearl suction plate.
1797-1800	Dies for making obturators.
1801	Upper denture crowns and bridge.

PART II.

THE TEETH OF FISHES.

PALÆICHTHYES.

SHARKS (*Plagiostomata*).

NO.	NAME.	LOCALITY.	CASE.
385-7-91-99	Shark <i>Lamna</i>		III
1018	" "		XII
406	" Port Jackson .. <i>Cestracion Philipi</i>		III
380	Dog Fish <i>Scyllium caniculum</i>		"
1571-2	" " "		In spirits.

FOSSIL SHARKS AND OTHER FISHES.

1159	Teeth and Spines from Upper Ludlow beds, Silurian measures		XV
551	Bony plated Fish <i>Bothriolepis canadensis</i> , Devonian	Canada	III
556	" <i>Cephalaspis Lyelli</i>	" Scotland	"
1166-7	Cestraciont Shark <i>Diplodus</i>	Carboniferous S. Stafford ...	XV
1170	" " <i>Psephodus magnus</i>	" Ireland	"
1171	" " <i>Orodus ramosus</i>	" Cheshire	"
1173-4	" " <i>Helodus didymus</i>	" Limerick	"
1175	" " <i>Cladodus striatus</i>	" "	"
1176 to 8	" " <i>Strophodus magnus</i>	Forest marble Glos.	"
1180	" " " "	Oolite Wilts	"
1186	" " " "	Wealden Bedford	"
548	" " " " <i>medius</i> (cast) Carboniferous	"	III
1181 to 3	" " <i>Acrodus anningiæ</i>	Lias Lyme Regis ..	XV
547	" " " " (cast)	"	III
553	" " " <i>nobilis</i>	"	"
546	" " <i>Cælodus gyroides</i>	"	"
1184-5	" " <i>Hybodus reticulatus</i>	"	XV
1194	" " " "	Stonesfield slate ..	"

FOSSIL PREDATORY SHARKS.

1220-4	Shark <i>Corax falcatus</i>	Chalk..... Britain	XV
1221	" <i>Lamna appendiculata</i> ..	Cambridge Greensand ..	"
1225	" " "	Chalk..... Dover	"
1020A-20B	" " "	"	XII

NO.	NAME.	LOCALITY.	CASE.
1222-3	Shark <i>Otodus obliquus</i>	Cambridge Greensand .. Britain	XV
1232	" "	Miocene Patagonia ...	"
1234	" "	London clay Sheppey	"
1235-7	" "	Red Crag ... Suffolk	"
434-5-6-7	" "	Miocene..... S. Carolina ...	III
1233-6	" <i>macrodon</i>	London clay Barton	XV
1006A	" "	"	XII
1225A	" <i>Notidanus microdon</i>	Chalk Dover	XV
1238	" "	Red Crag ... Suffolk	"
1227	" <i>Lamna elegans</i>	Eocene England	XV
1228	" "	Miocene..... Patagonia ...	"
1229	" "	Barton Clay England	"
1230	" "	Red Crag ... Suffolk	"
1231-31A	" "	Eocene England	"
432-3	" <i>Odontaspis</i>	Miocene S. Carolina ...	III
1239	" <i>Hemipristis</i>	"	XV
431	" "	"	III
1240	" <i>Galeocerdo</i>	Tertiary "	XV
1241	" <i>Oxyrhina hastates</i>	Miocene..... Patagonia ...	"
1242-4-6	" "	Red Crag ... Suffolk	"
1243-5	" "	Pliocene Belgium	"
1244	" "	Red Crag ... Suffolk	"
1006	" "	"	XII
394 to 446	" <i>Carcharodon megalodon</i> ...	Miocene..... S. Carolina ...	III
1247-8	" "	"	XV
1248A	" "	"	"
1249-51	" "	"	"
1226	" <i>Ischiodus gigas</i>	Stonesfield Slate.... Britain	"
1252-3	" <i>Edaphodon</i>	Eocene "	"
1098-9	" "	Red Crag ... Suffolk	XIV

SAW FISHES AND RAYS.

383	Ray, female	<i>Raia batis</i> , dentition	III
392	" male	"	"
390-5	" thornback	" <i>clavata</i> , spines	"
1005-15-60A	" female	" <i>batis</i>	XII
1573	"	"	Jar of spirits.
1014-16	" male	"	XII
386	"	<i>Myliobatis</i> , dental plates	III
379	"	<i>Zygobatis</i>	"
384	"	<i>Ætobatis</i>	"

NO.	NAME.	LOCALITY.	CASE.
393	Saw Fish	<i>Pristis</i>	III
647	"	"	VI
999 to 1000A	"	"	XII
1556	"	"	On wall.
DIPNOI, LUNG FISHES.			
381	Australian Mud Fish..	<i>Ceratodus forsteri</i> , dental plates	III
412-13	"	"	casts
GANOID FISHES.			
1020	Sturgeon	<i>Acipenser sturio</i> , bony plates	Britain
1557-60	"	"	On counter and walls.
648	Garpike	<i>Lepidosteus</i>	N. America... VI
FOSSIL RAYS.			
1093	Ray	<i>Myliobatis Dixoni</i>	Eocene
1095	"	"	Bracklesham
1100	"	"	N. America... ..
1102	"	"	Red Crag ... Suffolk
1168	"	"	Miocene... Patagonia ...
1169	"	<i>Psammodus</i>	Carboniferous Armagh.....
1172	"	<i>Copodus spatulatus</i>	"
1094	"	" <i>planus</i>	"
1217-8-9	"	<i>Ætobatis</i>	Eocene
1152	"	<i>Ptychodus mammillares</i> ...	Eocene
1152	"	"	Cretaceous .. Maidstone ...
1152	"	"	"
FOSSIL GANOID FISHES.			
550	Ganoid Fish	<i>Dapedius</i> (cast)	Lias
552	"	<i>Pycnodus</i>	Lias
1189	"	"	tooth
545	"	<i>Pholidophorus</i>	Greensand
1160-1-2	"	"	Lias
1163-4-5	"	<i>Rhizodus Hibbertii</i>	Carboniferous Edinburgh ...
1179-96-7	"	<i>Megalichthys</i>	"
1187-8	"	<i>Lepidotus</i>	Kimmeridge Clay
1190-91	"	<i>Gyrrodus hexagonus</i>	"
1193	"	<i>Phyllodus petiolatus</i>	London Clay Sheppey
1192	"	"	Red Crag ... Norfolk
1195	"	<i>Mesodons Hughii</i>	Soleure
1198	"	" <i>Damonii</i>	Oolite
1103	"	<i>Sphærodus gigas</i>	Neocomian Potton.....
1216	"	<i>Chrysophrys</i>	Red Crag .. Suffolk.....
549	"	<i>Saurocephalus</i>	Upper Green-sand... Cambridge ...
549	"	<i>Euryopholis Boissieri</i> ...	Cretaceous .. Mt. Lebanon III

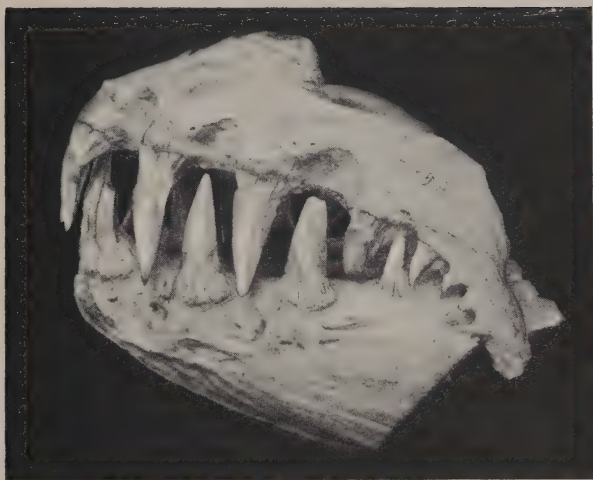
TELEOSTEI.—MODERN BONY FISHES.

NO.	NAME.	LOCALITY.	CASE.
404-8	Angler Fish <i>Lophius piscatorius</i>	Britain	III
1575	" "	" "	In jar spirits.
1001	Barbel <i>Barbus vulgaris</i>	" "	XII
396	Bream, Sea <i>Brama</i>	" "	III
1011	Barracuda <i>Sphyræna</i>	" "	XII
398	Chub <i>Leuciscus cephalus</i>	" "	III
1002	" "	" "	XII
407	" Indian " "	" "	III
1012	Eel <i>Anguilla vulgaris</i>	" "	XII
410	Garfish <i>Belone vulgaris</i>	" "	III
1019	" "	" "	XII
401-2	Gilt Head <i>Chrysophrys aurata</i>	" "	III
405	Globe Fish <i>Diodon maculatus</i>	" "	"
649	" "	" "	VI
1558	" "	" "	In glass case.
1092	" "	" "	XIII
1003	Hake <i>Merlucius vulgaris</i>	" "	XII
1570	Haddock " "	" "	Jar of spirits.
1004	" "	" <i>æglefinis</i>	XII
649A—B	Hydrocyon, Congo fish <i>Hydrocyon goliath</i>	" "	VI
403	Parrot Fish <i>Pseudoscarus</i>	" "	III
411	Pike <i>Esox lucius</i>	" "	"
1007-12	" "	" "	XII
388	Pipe Fish <i>Syngnathus acus</i>	" "	III
382	Sea Horse <i>Hippocampus</i>	" "	III
409	Sea Wolf <i>Anarrhicas lupus</i>	" "	"
397	Sheep's Head <i>Sargus ovis</i>	" "	"

REPTILES. REPTILIA.

Crocodilia. CROCODILES.

NO.	NAME.	LOCALITY.	CASE.
420-3-9-30	Crocodile, Malayan .. <i>Crocodilus Malayanus</i>	Malay States	III
1085-6	" " " " " "	" "	XIII
1568	" " " " " "	" "	Jar spirits
427	Caiman <i>Caiman sclerops</i>	Centra ¹ America	III
426	Alligator <i>Alligator Mississippiensis</i>	U.S.A. " "	" "



649B—HYDROCYON GOLIATH.

Lacertilia. LIZARDS.

NO.	NAME.	LOCALITY.	CASE.
425	Lizard, Iguana <i>Iguana tuberculata</i>	Cent. America	III
1058	" " " "	"	XII
413	Tuatera <i>Sphenodon punctatus</i>	New Zealand	III
1578	Lizard, Iguana <i>Iguana</i>	Cent. America	In jar of spirits.

Ophidia. SNAKES.

BOIDÆ.

419-21-2	Python <i>Python sebae</i>	W. Africa	III
1021A	" " "	"	XII

AGLYPHA.

1022	Australian non-venomous snake		XII
------	---	--	-----

OPISTHOGLYPHA.

416	Cobra <i>Naia tripudians</i> , grooved poison fangs ..	India	III
1567A	Australian venomous snake		In glass jar

Viperinæ. VIPERINE SNAKES.

417-8	Puff Adder <i>Clotho arietans</i>	S. Africa	III
1564	Viperine snake		Jar of spirits
1576	Night adder	Natal	"
1577	Rattlesnake <i>Crotalus horridus</i>		"
643	" " "	Natal	VI

Chelonia. TURTLES.

428	Turtle <i>Chelone vulgaris</i>		III
-----	--	--	-----

AVES.

BIRDS WITH HORNY BILLS.

642	Albatross	Pacific Ocean	VI
645A	Cormorant	Britain	"
645	Vulture	Britain	"

Division II.—METATHERIA.

MARSUPIALS.

Pouched Animals born in an immature condition.

Divided into—

1.—POLYPROTODONTS.

2.—DIPROTODONTS.

POLYPROTODONTS.

Incisors numerous, as in Opossum $\frac{5}{4}$, Perameles $\frac{5}{3}$.

NO.	NAME.	LOCALITY.	CASE.
5	Opossum	<i>Didelphys marsupialis</i>	N. America... I
368-9-70-1	"	"	III
6	Perameles	<i>Perameles gunni</i>	Australia.... I
376-7-8	"	"	III

DIPROTODONTS.

Incisors usually $\frac{3}{1}$, as in the Kangaroo; never exceeding $\frac{3}{3}$; sometimes $\frac{1}{1}$, as in Wombat.

7	Cuscus	<i>Phalanger maculatus</i>	Australia.... I
8	"	" <i>orientalis</i>	"
372	"	" <i>vulpina</i>	III
373	"	" <i>Cookii</i>	"
9	"	<i>Trichosurus Phalanger</i>	I
12-13	Wallaby	<i>Macropus</i>	Australia.... I
360-1-2	"	" <i>minor</i>	III
356-7-8-9	Great Kangaroo	" <i>rufus</i>	"
364	"	"	"
375	Kangaroo Rat	<i>Hypsiprymnus</i>	"
363 to 367	Koala	<i>Phascolarctus fuscus</i>	"
10-11	"	"	I
374	Flying Phalanger ...	<i>Petaurus australis</i>	III

Division III.—EUTHERIA.

Order: EDENTATA.

14	Armadillo	<i>Dasybus</i>	S. America ... I
300	"	"	"
1566	"	"	In glass jar
16-7	Sloth	<i>Bradypus</i>	"
347	"	<i>Cholæpus</i>	"

CETACEA.

ODONTOCETI.

NO.	NAME.		LOCALITY.	CASE.
18	Porpoise	<i>Phocæna communis</i>	Britain	I
19	Dolphin	<i>Delphinus delphis</i>	"	"
308-8A	"	"	"	II
1084	"	"	"	XIII
20-1-2	Sperm Whale	<i>Physeter macrocephalus</i>	Atlantic Ocean	I
301 to 7A	"	"	"	II
1555	Narwhal	<i>Monodon monoceros</i>	Arctic Ocean	On wall.

MYSTACOCETI.

24	Baleen Plates	<i>Balæna</i>	Britain	I
----	---------------------	---------------------	---------------	---

FOSSIL CETACEA.

23	Fossil Whale	<i>Balænodon</i>	Red Crag ...	Britain	I
1104-5	"	"	Miocene	S. Carolina ...	XIV
1114-6-1132	"	<i>Squalodon</i>	Red Crag ...	Suffolk	"

Order : SIRENIA.

1074	Manatee	<i>Manatus</i>	Tropics	XIII
1072	Dugong	<i>Halicore dugong</i>	Australia	"
86	"	"	"	I
646	"	"	"	VI

Order : UNGULATA.

ARTIODACTYLA.—Even-toed Ungulates.

Divided into—

Bunodontia,
Selenodontia.

BUNODONTIA, with Tuberculated Molars.

PIGS AND HIPPOPOTAMI.

29-30	Hippopotamus	<i>Hippopotamus amphibius</i>	Africa	I
311 to 319	"	"	Britain	II
1062-3	"	"	"	XIII
1146 to 1155	"	"	"	XIV
1563A, B	"	"	Africa	Counter.



24—WHALEBONE PLATE. *Balæna*.

NO.	NAME.	LOCALITY.	CASE.
26-7	Pig <i>Sus scrofa</i>	Britain	I
13-14	" "	"	II
345	" "	"	V
639B, C	" "	"	"
32	Boar, Indian <i>cristatus</i>	India	I
323	" "	"	II
1077-1092B	" Malayan	Malaya	XIII
31	Babirusa <i>Sus babirusa</i>	Celebes	I
325	" "	"	II
634-5	" "	"	V
1080	Boar, Javanese <i>Sus javanica</i>	Java	XIII
636	" Malayan <i>longirostris</i>	Malaya	V
1078-9	" "	"	XIII
28-33-4	Wart Hog <i>Phacochærus</i>	E. Africa.....	I
320-1-2	" "	"	II
637	" "	"	V
1081	" "	"	XIII
25	Peccary <i>Dicotyles</i>	N. America...	I
324	" "	"	II

SELENODONTIA, with crescentic ridged Molars.

CAMELS, DEER, RUMINANTS.

CAMELIDÆ.

1069	Camel <i>Camelus</i>	Egypt	XIII
41	Guanaco <i>Lama huanacus</i>	Peru	I

TRAGULIDÆ.

40	Chevrotain <i>Tragulus chevrotain</i>	Malay States	I
327-8	" <i>javanicus</i>	"	II

PECORA.

1066	Red Deer <i>Cervus elaphus</i>	Britain	XIII
1092	Deer "	"	"
1483 to 1503	Red Deer <i>elaphus</i>	"	XVI
335	Deer <i>Capreolus</i>	"	II
337-8	" "	Borneo	"

CERVIDÆ.

329-30-30A	Muntjac..... <i>Cervulus muntjac</i>	Malaya	II
638-9	" "	"	V

BOVIDÆ.—Hollow-horned Ruminants.

39	Antilope <i>Antilopus</i>	S. Africa	I
333-6-41	" "	"	II
1083A-1092A	" "	R. Congo	XIII

NO.	NAME.	LOCALITY.	CASE.
334	Antelope Dwarf <i>Cephalophus</i>	S. Africa	II
332	Blaubok <i>Hippotragus leucophæus</i>	"	"
1561	Springbok	"	On wall.
1562	Bush buck <i>Tragelaphus sylvaticus</i>	"	"
1082	Goat <i>Capra</i>	Britain	XIII
37-8	Sheep <i>Ovis</i>	"	I
339-40-4	" "	"	II
639A	" "	"	V
35-6	Ox <i>Bos</i>	"	I
331-42-5	" "	"	II
1070-1083	" "	"	XIII

PERISSODACTYLA.—Odd-toed Ungulates.

TAPIR, RHINOCEROS, HORSE.

41	Tapir <i>Tapirus indicus</i>	India	I
1075	" "	"	XIII
42	Rhinoceros <i>Rhinoceros asiaticus</i>	E. Asia	I
348-9-50	" "	"	II
1071	" "	"	XIII
43-4-5-6	Horse <i>Equus caballus</i>	"	I
351	" "	"	II
1067	" "	"	XIII
1563	" "	"	On counter.
1068	Ass <i>asinus</i>	"	XIII

Sub: UNGULATA.

HYRACOIDEA.

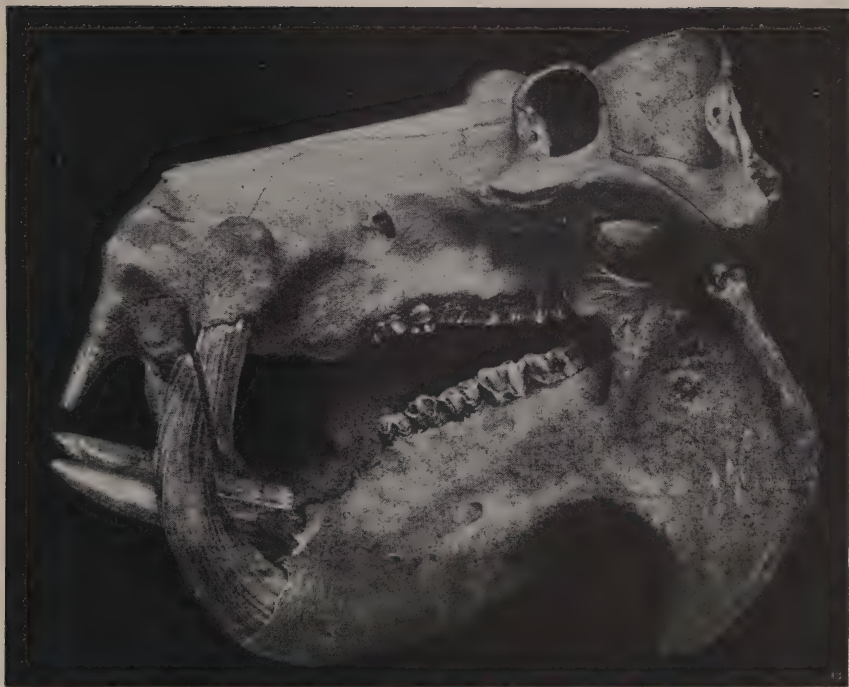
47	Hyrax <i>Procavia syrica</i>	Syria	I
310	" "	"	II
309-346	" <i>Hyrax capensis</i>	S. Africa	"

FOSSIL UNGULATES.

1089	Anthracotherium <i>Anthracotherium</i> , cast	Miocene	Britain	XIII
1120	" "	"	"	XIV
1143	Boar, Wild <i>Sus scrofa</i>	Pleistocene	"	"
1149-50	Bison <i>Bison priscus</i>	"	Barrington	XIV
1388 to 1481	" "	"	"	XVII
1115	Cænotherium <i>Cænotherium</i>	Oligocene	France	XIV



639A—SHEEP. *Ovis*.



1563A—HIPPOPOTAMUS. *Hippopotamus amphibius*.

NO.	NAME.		LOCALITY	CASE.
1118	Deer	<i>Cervus suttonensis</i>	Red Crag ...	Felixstowe .. XIV
1128-41	„ Red	„ <i>elaphus</i>	Pleistocene	Barrington ... „
1483-1505	Elk	„	„	XVII
1129	„	„ <i>canadensis</i>	„	XIV
1137	„	<i>Alices macklis</i>	„	„
355A to E	Elasmotherium.....	<i>Elasmotherium</i>	„	Siberia..... II
1151	„	„	„	XIV
575-6	Horse, Wild	<i>Equus caballus</i>	„	Britain II
1138-9-40-8	„ „	„ „	„	XIV
1541 to 9	„ „	„ „	„	XVII
1089 to 1120	„ „	„ „	„	XIII
1144-6-7	Hippopotamus	<i>Hippopotamus amphibius</i> ..	„	XIV
1154-5	„	„ „	„	„
1255 to 1353	„	„ „	„	XVI
1121-2-3	„	„ <i>Sivalensis</i> Pliocene	Siwalik Hills, India	XIV
1108-9-10	Hyopotamus	<i>Hyopotamus vectianus</i> ..	Eocene	I. of Wight .. „
1133-4-42-53	Ox	<i>Bos primigenius</i>	Pleistocene	Thames Valley XIV
1482	„	„ „	„	Clapton gravels XVII
1106	Palæotherium	<i>Palæotherium</i>	Eocene	Paris XIV
1111	„	„	„	Isle of Wight „
1107	„	„ <i>magnum</i>	„	N. America... „
352	„	„ „ cast	„	II
1136	Reindeer	<i>Cervus tarandus</i>	Pleistocene	Barrington ... XIV.
573-7	Rhinoceros, Woolly ..	<i>Rhinoceros tichorhinus</i> ..	Pleistocene	Torquay III
1135-58	„	„ „	„	Barrington ... XIV
1367-to 87	„	„ „	„	XVII
1538 to 40	„	„ „	„	XVII
1156	„	„ <i>merckii</i>	„	Wiesbaden ... XIV
1124	Sivatherium	<i>Sivatherium</i>	Pliocene	India „
1112	Tapir	<i>Tapirus priscus</i>	Red Crag ...	Suffolk „
1096	Titanotherium	<i>Titanotherium robustum</i> ..	Oligocene ...	Dakota „
602	„	„ „	„	IV

PROBOSCIDEA.

48-8A-50	Elephant, Indian	<i>Elephas indicus</i>	India	I
579-80-4-5	„ „	„ „	„	IV
605-6-7-8-9	„ „	„ „	„	„
644	„ „	„ „	„	VI
49-51-2	„ African	„ <i>africanus</i>	Africa	I
353-4-5	„ „	„ „	„	II

NO.	NAME.	LOCALITY.	CASE.
589-90	Elephant, African <i>Elephas africanus</i>	Africa	IV
640-1	" " " "	"	VI
581-2-3	" Malay " <i>malayanus</i>	Malay States	IV
610-11-2-3-4	" " " "	"	"
578	Elephant's Molar, showing evolution of form		III

FOSSIL ELEPHANTS.

587-601	Mammoth	<i>Elephas primigenius</i> ... Pleistocene	Behrings Str.	IV
591-2-2A-3-4	"	" " " "	Dogger Bank	"
597	"	" " " "	Virginia	"
599-600	"	" " " "	Britain	"
1563c	"	" " " "	Dogger Bank	On counter
598	Elephant, English	" <i>antiquus</i>	Barrington ...	IV
1354 to 66	" " " "	" " " "	"	XVI
1550	" " " "	" " " "	"	XVII
603-4	" " " "	<i>meridionalis</i> .. Pliocene ...	Britain	IV
596	" Indian	" <i>planifrons</i>	India	"
595	" "	" <i>hysudricus</i>	"	"
586	" American ..	" <i>columbi</i> Pleistocene	L. Titicaca, Peru	"
53-4	Mastodon " ..	<i>Mastodon americanus</i> , cast	N. America ...	I
55	" English	" <i>borsoni</i> , cast	Red Crag ...	Suffolk
1113-9-56	" "	" <i>arvernensis</i>	Suffolk	XIV
56	Dinotherium	<i>Dinotherium</i> Pliocene ...	Germany	I

Sub. Order : RODENTIA.

SIMPLICIDENTATA.

DUPLICIDENTATA.

SIMPLICIDENTATA—includes all Rodents, except hares and rabbits, having one pair of incisors in each jaw.

560	Squirrel, Purple	<i>Sciurus indicus</i>	India	I
271-2-3	" "	" "	"	II
274	" English	" <i>bicolor</i>	Britain	"
56G	Beaver, Canadian	<i>Castor fiber</i>	Canada	I
263	" "	" "	"	II
56A	Rat, English	<i>Mus decumanus</i>	Britain	I
264	" "	" "	"	II
286	Mouse	" <i>arvensis</i>	" "	"
56B	Rat, Australian Water	<i>Hydromys</i>	Australia	I
265	" "	"	"	II



189—LION. *Felis leo*.

NO.	NAME.	LOCALITY.	CASE.
56E	Porcupine	<i>Hystrix cristata</i>	Malaya I
280-1-2-3	"	"	" II
56K	Viscacha	<i>Lagostomus viscacha</i>	S. America ... I
269	"	"	" II
261-2	Spotted Cavy	<i>Cælogenys paca</i>	" "
284	"	"	" II
564	"	"	" "
56C	Guinea Pig	<i>Cavia Cutleri</i>	Brit. Guiana.. I
270	"	"	" II
285	Coypu	<i>Myopotamus coypu</i>	Brazil "
1254	Beaver	<i>Castor fiber</i>	Pleistocene Britain XVI

DUPLICIDENTATA—having two pairs of incisors in the upper jaw.

LEPORIDÆ.—Hares and Rabbits.

56F-J	Rabbit	<i>Lepus cuniculus</i>	Britain I
266-8	"	"	" II
275 to 279	"	"	" "
286A	"	"	" "
56I	Hare	" <i>europæus</i>	" I
267	"	"	" II

Order: CARNIVORA.

ÆLUROIDEA.

Cat-like Carnivora, including the Felidæ, Viverridæ, Proteleidæ, and Hyænidæ.

FELIDÆ.

65	Tiger	<i>Felis tigris</i>	India I
188-90	"	"	" II
628-31-33-6	"	"	Malay States V
189	Lion	" <i>leo</i>	S. Africa II
629-30-33C	"	"	" V
187-99-255	Leopard	" <i>pardus</i>	" II
632	"	"	" V
73	Lynx	" <i>lynx</i>	Europe I
201	"	" <i>canadensis</i>	Canada II
248	"	" <i>caracal</i>	Persia "
200	Puma	" <i>concolor</i>	S. America ... "
249-52	"	"	" "
256	"	" <i>geoffroyii</i>	" "
71-2-4	"	" <i>domestica</i>	Britain I
243-53-7-8-9-60	"	"	" II
198	Cheetah	<i>Cheetah jubatus</i>	India "

VIVERRIDÆ.

NO.	NAME.		LOCALITY.	CASE.
78	Foussa	<i>Cryptoprocta ferox</i>	Madagascar ..	I
245-54	Civet Cat.....	<i>Viverra civeta</i>	India	II
80-246	Genet	<i>Genetta vulgaris</i>	Spain	I
228-9-30	Paradoxurus	<i>Paradoxurus leucomystax</i>	Borneo	II
76	Mongoose	<i>Herpestes ichneumon</i>	Malaya	I
192	"	"	"	II
193	"	"	Spain	"
202	"	"	India	"
225-6	"	" <i>griseus</i>	"	"

PROTELEIDÆ.

68	Aard Wolf	<i>Proteles cristatus</i>	S. Africa	I
260A	"	"	"	II

HYÆNIDÆ.

179-81-86	Hyæna	<i>Hyæna vulgaris</i>	S. Africa	II
-----------	-------------	-----------------------------	----------------	----

CYNOIDEA.

Family: CANIDÆ.

66-70	Dog	<i>Canis familiaris</i>	Britain	I
207 to 11	"	"	"	II
222-7	"	"	"	"
206	Jackal	" <i>aureus</i>	India	II
69	Fox	" <i>vulpes</i>	Britain	I
212-to 15	"	"	"	II
220-1	"	"	"	"
216-7	Grey Fox.....	" <i>lagopus</i>	Canada	II
223	Prairie Dog	" <i>latrans</i>	N. America....	"

ARCTOIDEA.

Family URSIDÆ.

67	Bear, Polar	<i>Ursus maritimus</i>	Arctic Ocean	I
182-3	"	"	"	II
180-91-7	" Black	" <i>torquatus</i>	Himalayas ...	"
184	" Japanese	" <i>japonicus</i>	Japan	"
633	" Malayan	" <i>malayanus</i>	Malaya	V
633A	" Indian	" <i>nigra</i>	India	"

Family PROCYONIDÆ.

88	Nasua	<i>Coati mundi</i>	Cent. America	I
244	"	"	"	II

Family MUSTELIDÆ.

NO.	NAME.		LOCALITY.	CASE.
83	Otter	<i>Lutra vulgaris</i>	Britain	I
205-224	"	"	"	II
87A	Badger	<i>Meles taxus</i>	"	I
203-4-51	"	"	"	II
75	Ferret	<i>Mustela putorius</i>	"	I
236-7-40	"	"	"	II
235	Polecat	"	"	"
79-82	Stoat	<i>erminea</i>	"	I
238-9-41-2-7	"	"	"	II
81	Weasel	<i>vulgaris</i>	"	I
87	Pine Marten	<i>martes</i>	"	I
	"	"	"	II
233-4	Beech Marten	<i>foina</i>	Cochin China	"

Sub. Order : PINNIPEDIA.

85	Seal	<i>Phoca vitulina</i>	Britain	I
194 to 6	"	"	Arctic Seas ..	II
25D	"	"	"	II
633B	"	"	"	V
84	Walrus	<i>Trichechus rosmarus</i>	"	I
214A	"	"	"	II
1062-64-73	"	"	"	XIII

FOSSIL CARNIVORA.

565 to 71	Cave Hyæna	<i>Hyæna spelæa</i>	Pleistocene	Britain	III
1088	"	"	"	"	XIII
1126-30-1	"	"	"	"	XIV
1506 to 37-51	"	"	"	"	XVII
1117	Hyænarctos	<i>Hyænarctos insignis</i> ..	Miocene	Suffolk	XIV
185	"	"	"	"	II
572-4	Cave Bear	<i>Ursus spelæus</i>	Pleistocene	Britain	III
1125-7	"	"	"	"	XIV

Order : INSECTIVORA.

58	Bat	<i>Vesperugo noctula</i>	England	I
59	Shrew	<i>Sorex vulgaris</i>	"	"
295-6	"	"	"	II

NO.	NAME.	LOCALITY.	CASE.
60-1	Mole <i>Talpa europæa</i>	England	I
293-4	" " "	"	II
62-3	Hedgehog <i>Erinaceus europæus</i>	"	I
291-2	" " "	"	II
64	Tenrecs <i>Centetes ecaudatus</i>	Seychelles ...	I
57	Fruit Bat <i>Pteropus medius</i>	Malaya	I
287 to 90	" " "	"	II

Order : PRIMATES.

This Order includes Lemurs, Monkeys, Anthropoid Apes, and Man.

Sub. Order : LEMUROIDEA.

89-90	Lemur <i>Lemur varius</i>	Madagascar ..	I
122-3	" " "	"	II

Sub. Order : ANTHROPOIDEA.

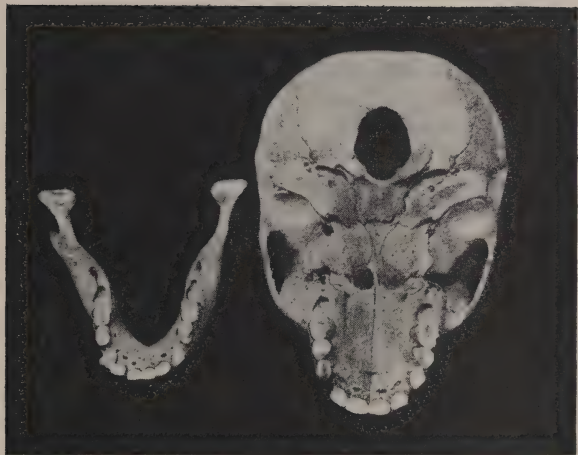
PLATYRRHINA.—New World Monkeys.

NO.	NAME.	LOCALITY.	CASE.
124	Golden Marmoset <i>Midas chrysoleucas</i>	S. America ...	II
125	Spider Monkey <i>Ateles ater</i>	"	"
91	Capuchin Monkey ... <i>Cebus capucinus</i>	"	I
126-7	" " " "	"	II
127A-B	Teetee <i>Callithrix moloch</i>	"	"

CATARRHINA.—Old World Monkeys.

CERCOPITHECIDÆ.

94-5-6	Baboon <i>Cynocephalus porcarius</i>	W. Africa	I
128-33	" " "	"	II
133-4-5-6	" " <i>babouin</i>	S. Africa	"
129-30-1	Mandrill " <i>maimon</i>	W. Africa	"
92-3	Macaque Monkey <i>Macacus nemestrinus</i>	India	I
137 to 40	" " " " <i>radiatus</i>	Borneo	II
141 to 148A	" " " "	"	"
97	Vervet " <i>Cercopithecus lalandii</i>	S. Africa	I
149	" " " "	"	II
150	Guenon " " <i>guenon</i>	"	"
151 to 6	Semnopithecus <i>Semnopithecus</i>	East Indies...	"
156A	" " <i>obscurus</i>	Malaya	"
157	Howling Monkey <i>Stentor chrysurus</i>	India	"



620—CHIMPANZEE. *Anthropopithecus troglodytes* (young).

SIMIIDÆ.

NO.	NAME.	CASE.
117	Orang utan..... <i>Simia satyrus</i>	Sumatra I
620-5-6	" " " " " " " " " " " "	V
116	Gorilla <i>Gorilla savagei</i>	W. Africa I
159	" " " " " " " " " " " "	II
615-6	" " " " " " " " " " " "	V
118-19	Chimpanzee <i>Anthropopithecus troglodytes</i>	" I
158	" " " " " " " " " " " "	II
619-21-2-3-4	" " " " " " " " " " " "	V

HUMAN DENTITION.

Family HOMINIDÆ.

100	Human Dentition	I
101	Crowns of teeth	"
102	Roots "	"
103	Pulp chambers	"
107	Adult dentition, upper jaw	"
109	" " lower jaw.....	"
108	Child " 7th year, upper jaw	"
110	" " " " lower jaw.....	"
111-12	Teeth at birth	"
114	" showing occlusion	"
115	European skull and mandible	"
160	Human dentition	II
618	Skull and Mandible, S. Sea Islander	V
627	Mandible of Roman girl, 8 years	"
627 ^B	" Dinka, Southern Soudan, showing extraction of incisors and canines	"
1065	Skull of child, 7th year	XIII
1559	Adult skull and mandible, disarticulated	Glass case on counter.
161-2-3	Fœtal skull	II
164-5	" mandible	"
169-178 ^A	" " 18 months.....	"
178 ^B	" palate	"
666 ^A	Superior Maxilla 4 years	"
166	" " 6 "	"
167	Mandible, 4 "	"
168	" 5 "	"
171	" 10 "	"
170-2-3-6-7-8	" Adult	"
121	" "	I
174-5 ^A	" Old age	"

FOSSIL PRIMATES.

NO.	NAME.	LOCALITY.	CASE.
105	Primitive Anthropoid Ape.. <i>Parapithecus fraasi</i>	Oligocene ... Egypt	I
106	" " " " <i>Propithecus hæckeli</i> ..	" " "	"
104	" " " " <i>Macripithecus markgrafi</i> ..	" " "	"
98	Anthropoid Ape..... <i>Dryopithecus fontani</i> ...	Miocene..... France.....	"
98A	Early Monkey <i>Mesopithecus pentelici</i> ..	Pliocene Pikermi, Greece ..	"
99	" Man from Java ... <i>Pithecanthropus</i>	Pleistocene Java	"
113	Heidelberg Man <i>Homo heidelbergensis</i> ..	Pleistocene .. R. Mauer	"
120	Pitldown Man <i>Eoanthropus dawsoni</i> , half mandible, cast ..	Pleistocene .. Pitldown, Sussex ..	"
1554	" " " " <i>Eoanthropus dawsoni</i> , restoration of skull .....	.....	in glass case.

HOMINIDÆ.

ABNORMAL HUMAN TEETH.

NO.	NAME.	ROOTS.	CASE.
447-52-4	Incisors with deflected roots .....	.....	III
455-6	Canines, " " " .....	.....	"
457 to 61	" " bifurcated roots .....	.....	"
960	" " " " " .....	.....	XI
462-3	Bicuspid with deflected roots .....	.....	III
960A	" " abnormal " .....	.....	XI
464 to 8	" " variation in roots .....	.....	III
469 to 75	" " three roots, as in anthropoid ape.....	.....	"
970	" " " " " .....	.....	XI
507 to 13	Upper Wisdoms, with variation in roots.....	.....	III
520 to 38	Molars, lower, with abnormal roots .....	.....	"
544 to 48	" " " " " .....	.....	"
947-65-9	" " " " " .....	.....	XI
539 to 44	" " " incomplete " .....	.....	III
447-52-4	Incisors, Conical .....	.....	"
867-90 to 97-900	" " " " " .....	.....	IX
476	Bicuspid, showing injury to crown .....	.....	III
491 to 506	Upper Wisdoms, variation in crowns and roots .....	.....	"
448	Gemination of lower temporary canine and incisor .....	.....	"
973	" upper " " " .....	.....	XI
449	" supernumerary teeth .....	.....	III
450	" permanent lower lateral incisors .....	.....	"
451	" " upper " " " .....	.....	"
803	" " " " " " .....	.....	VIII

No.	NAME.	CASE.
800-1	Gemination of deciduous incisors	VIII
802	" canine and bicuspid	"
453	Supernumerary teeth, showing variations in shape	III
477 to 90	" " " " " "	"
682 to 735	" " in incisor region	VII
972	Deciduous molars	XI
514-15	" " roots embracing crowns of bicuspid	III
516-19	Enamel buds on roots	"
989	Extra cusps on molars	XI

ABNORMAL HUMAN DENTITIONS.

649 to 653-8	Supplemental upper lateral incisors	VII
898 to 9	" " " "	IX
653 to 7	" " " "	VII
659 to 71	" " " "	"
672 to 4	" lower " "	VII
675 to 81	" deciduous " "	"
735	" canines	VIII
736-7-8	" premolars	"
739-40	" molars	"
839-63-45-901	Abnormal incisors	IX
966	Incisors filed for ornament	XI

SUPPRESSION OF TEETH.

741 to 53, 760-1	Absence of incisors	VIII
791-6	" " " "	"
867	" " " "	IX
754	" " canine	"
755 to 9, 761A	" " premolars	"

IRREGULARITIES.

943-4	Impacted Wisdom teeth	XI
902	Retention of deciduous teeth	IX
762-3	" " molars	VIII
869-906	" " " "	IX
790-880	" " canine	"
764 to 90	Malposition of incisors	"
822 to 5, 832 to 8	" " " "	"
860-1, 908	" " " "	"
826 to 831	" canines	"
870 to 9, 905	" " " "	"
862-907-9-10-11	" molars	"

NO.	NAME.	CASE.
797-9	Malformation of incisors	IX
821	" premolar	"
810-18	V-shaped and contracted palates	"
840-1	Protrusion of teeth and treatment	"
847-54-7-9	" " " "	"
903-4	Late eruption of canines	"
914	" " incisor	"
804	Dentition of Zulu	"
806-8	" European, typical	"
809-42-6	" dwarf	"
805	Edentulous lower jaw of Negress	"
866	Minute lower teeth	IX
915-6-7-8	Teeth with enlarged cingula	IX
912	Erosion of incisors	"
931-2	" teeth	X
962-3	" " " "	XI
967	Development of crowns, <i>illustrations</i>	"
968	" roots, " " " "	"

PATHOLOGICAL.

945-51	Absorption of roots and alveolus	XI
919-20-1	Alveolar abscess	X
952	" " " "	XI
924 to 8	Cleft palate.....	X
948	Dentigerous cyst	XI
949	" " contents of	"
961	Enamel, arrested development of	"
922-9	Epulis	"
950	Exfoliation of portion of upper jaw	"
953-4-6 to 9, 964	Exostosis of roots and alveolus	"
971	" " in sheep	"
820	Hypertrophied periosteum	VIII
936	Injury to palate from kick of horse	X
955	Odontome	XI
933-4	Osteomata	X
855-6	Pyorrhœa alveolaris	IX
935	Sarcoma in antrum	X
937 to 41	Salivary calculus	XI
942-6	Sequestrum from abscess	"
819	Stomatitic teeth	VIII
930	Syphilitic	X

NORMAL HUMAN TEETH.

NO.	NAME.	CASE.
978	Incisors, upper central	XI
979	" " " lateral	"
990-1	" lower central and lateral	"
980	Canines, upper	"
992	" lower	"
976	Bicuspid, 1st upper	"
977	" 2nd "	"
987	" 1st lower	"
988	" 2nd "	"
983	Molars, 1st upper	"
982	" 2nd "	"
981	" 3rd "	"
986	" 1st lower	"
985	" 2nd "	"
984	" 3rd "	"

DECIDUOUS TEETH.

996	Incisors	XI
993-7	Canines	"
994-5-8	Molars	"

INDEX.

	PAGE
Aard wolf	7, 12, 50
Acipenser sturio	26, 32
Æluroidea	7, 8, 11, 12
Ælurosaurus	17, 40
Acrodus anningiæ	17, 30, 37
Adder	16, 33, 41
Æto batis	15, 28, 38, 39
Aglypha	26, 41
Albatross	20, 41
Alces macklis	29, 47
Alligator	16, 40
Anarrhicas lupus	15, 40
Angler fish	15, 33, 40
Anguilla vulgaris	26, 40
Ant eater, spiny	5, 42
Antelope	6, 14, 17, 45, 46
Antilopus	6, 14, 27, 45, 46
Anthracotherium	27, 28, 46
Anthropoidea	8, 10, 18, 19, 52, 54
Anthropoid apes	8, 10, 18, 19, 52, 54
Anthropopithecus troglodytes	9, 18, 19, 53
Artiodactyla	6, 13, 19, 27
Arctoidea	7, 11, 19, 29, 50
Armadillo	5, 13, 33, 43
Ass	27, 46
Ateles	9, 52
Auchenia	14, 48
Australian mud fish	15, 39
" water rat	7, 12, 48
" venomous snakes	16, 26, 33
" non-venomous snakes	26, 41
" bear	5, 14, 43
Aves	41
Babirusa	6, 13, 19, 45
Baboon	8, 9, 10, 52
Badger	11, 12, 51
Balæna	5, 44
Balanodon	5, 28, 44
Baleen plates	5, 44
Bandicoot	5, 14, 43
Barbel	26, 36, 40
Barbus vulgaris	26, 40
Badger	8, 51
Barracuda	26, 40
Bat, English	7, 51
" Fruit	7, 13, 52
Bear, Polar	7, 11, 50
" Japanese	11, 50
" Indian black	10, 11, 19, 50
" Malayan	19, 50
" cave	11, 51
Beaver	7, 12, 32, 48, 49

	PAGE
Beech Marten	11, 51
Belone vulgaris	15, 26, 40
Birds	20, 41, 42
Bison priscus	29, 32, 46
Blaubok	14, 46
Boar	6, 13, 19, 27, 29, 45, 46
Bony Pike	20
Bos	6, 14, 27, 29, 32, 47
Bothriolepis canadensis	17, 37
Bovida	6, 14, 27, 46
Bradypus	5, 43
Brama	15, 40
Bream	15, 40
Bridges	26
Bushbuck	32, 46
Cænotherium	28, 46
Caiman sclerops	16, 40
Callithrix moloch	9, 52
Camelida	6, 14, 27, 45
Camelus	27, 45
Camels	27, 45
Canida	7, 8, 11, 50
Canis aureus	11, 50
" familiaris	7, 8, 11, 50
" lagopus	11, 50
" latrans	11, 50
" vulpes	7, 11, 50
Capra	27, 46
Capuchin monkey	8, 9, 52
Carcharodon megalodon	15, 16, 31, 38
Carnivora vera	7, 10, 11, 12, 19, 49
Carnivores	7, 10, 12, 19, 49
Casting methods	36
Castor fiber	7, 12, 32, 48, 49
Cat	8, 11, 12, 49
Catarrhina	8, 9, 52
Cave hyæna	11, 17, 27, 29, 51
" bear	11, 17, 29, 51
Cavia cutleri	7, 12, 49
Cavy	7, 12, 49
Cebida	8, 9, 52
Cebus	8, 9, 52
Centetes eudatus	7, 52
Cephalophus	14, 46
Cephalaspis Lyelli	17, 37
Ceratodus forsteri	15, 39
Cercopithecida	9, 10, 52
Cercopithecus lalandii	8, 10, 52
" cynoglossus	10, 52
" guenon	10, 52
Cervida	14, 45
Cervus canadensis	29, 47

INDEX—continued.

	PAGE
<i>Cervus capreolus</i>	14, 45
" <i>elaphus</i>	27, 29, 32, 45, 47
" <i>suttonensis</i>	28, 47
" <i>tarandus</i>	29, 47
<i>Cervulus muntjac</i>	14, 19, 45
<i>Cestracion philipi</i>	15, 17, 29, 37
Cetacea	5, 13, 44
Cheetah	11, 49
<i>Chelone vulgaris</i>	26, 41
<i>Chelonia</i>	26, 41
<i>Chevrotain</i>	6, 14, 45
Chimpanzee	9, 19, 53
<i>Cholepus</i>	13, 43
Civet	11, 12
Chub, English	15, 26, 40
" Indian	15, 40
Civet	12, 50
<i>Chrysophrys</i>	15, 28, 39, 40
<i>Cladodus striatus</i>	30, 37
<i>Clotho arietans</i>	16, 41
<i>Coati mundi</i>	8, 12, 50
Cobra	15, 41
Coney	13, 45
<i>Copodus spatulatus</i>	30, 39
" <i>planus</i>	30, 39
<i>Cælodus gyroides</i>	17, 37
<i>Cælogenys paca</i>	7, 12, 49
<i>Corax falcatus</i>	31, 37
Cormorant	20, 41
Coyu	12, 49
Crocodyles	16, 27, 28, 30, 33, 40, 42
Crocodylia	16, 27, 28, 30, 33, 40, 42
<i>Crocodylus malayanus</i>	16, 40
" <i>africanus</i>	16, 27, 40
<i>Crotalus horridus</i>	20, 41
Crowns	26, 36
<i>Cryptoprocta ferox</i>	8, 42
Cuscus	5, 14, 43
<i>Cyamodus laticeps</i>	17, 42
<i>Cynoidea</i>	7, 11, 50
<i>Cynælurus jubatus</i>	11, 49
<i>Cynocephalus porcarius</i>	8, 9, 10, 52
" <i>babouin</i>	10, 52
" <i>maimon</i>	9, 52
<i>Cynognathus crateronotus</i>	17, 42
Dakosaurus	30, 42
<i>Dasypus</i>	5, 43
Dapedius	17, 39
Deer, red	14, 27, 28, 29, 32, 45, 47
Delphinus delphis	5, 13, 27, 44
Dentures	35, 36
Dicotyles	6, 13, 45
<i>Didelphys marsupialis</i>	5, 14, 43
Dinotherium	7, 48

	PAGE
<i>Diodon maculatus</i>	15, 32, 40
<i>Diplodus</i>	29, 37
<i>Dipnoi</i>	15, 39
<i>Diplocynodon</i>	28, 42
Dog	7, 8, 11
" bull	11, 49
" pug	11, 49
" fish	15, 33, 37
" prairie	11, 50
Dolphin	5, 13, 27, 43
<i>Dryopithecus fontani</i>	8, 54
Duck-bill	5, 13, 27, 42
Dugong	8, 20, 27, 44
Echidna	5, 42
Echinus	33
Edaphodon	28, 31, 38
Edentata	5, 13, 43
Eel	36, 40
Elasmotherium	14, 29, 47
Elephant	6, 14, 17, 20, 32, 33, 47, 48
<i>Elephas africanus</i>	6, 7, 18, 20, 47, 48
" <i>antiquus</i>	18, 32, 48
" <i>columbi</i>	18, 48
" <i>hysudricus</i>	18, 48
" <i>indicus</i>	6, 18, 20, 47
" <i>malayanus</i>	18, 48
" <i>meridionalis</i>	18, 48
" <i>planifrons</i>	18, 45
" <i>primigenius</i>	18, 33, 48
Elevator	26
Elk	29, 47
<i>Eoanthropus Dawsoni</i>	9, 32, 54
<i>Equus caballus</i>	6, 14, 17, 27, 29, 32, 46, 47
" <i>asinus</i>	46
<i>Erinaceus europæus</i>	7, 13, 52
<i>Esox lucius</i>	15, 26, 40
<i>Eurypholis Boissieri</i>	17, 39
Felidae	7, 8, 11, 12, 19
<i>Felis canadensis</i>	11, 49
" <i>caracal</i>	12, 49
" <i>catus</i>	8, 49
" <i>concolor</i>	11, 12, 49
" <i>domestica</i>	12, 49
" <i>geoffroyii</i>	12, 49
" <i>leo</i>	11, 19, 49
" <i>lynx</i>	8, 49
" <i>pardus</i>	11, 12, 19, 49
" <i>tigris</i>	7, 11, 19, 49
Ferret	8, 11, 51
Fillings	26
Fishes	15, 20, 26, 32, 37, 40
Fossil, birds	17, 42
" <i>carnivora</i>	32, 51

INDEX—continued.

	PAGE		PAGE
Fossil, cetacea	28, 32, 44	Human teeth at birth	10
" elephants	18, 32, 48	" crowns	16, 53, 54, 55, 56
" fishes	17, 28, 29, 30, 33, 37, 38	" Cryer's, Dr., sections of	33
" ganoids	16, 30	" calcification	33
" primates	8, 9, 54	" dentition, deciduous	21, 22, 25, 53, 56
" rays	28, 39	" permanent	9, 10, 18
" reptiles	17, 28, 29, 30, 42	" deformities	16, 22, 23, 24, 25
" rodents	32	" teeth, deciduous	21, 22, 54, 55
" sharks	28, 30, 31, 37, 38	" enamel buds	16, 55
" ungulates	28, 32, 46, 47	" European	22, 53, 56
" whales	5, 28, 44	" evolution of	25, 56
Flasks	34	" foetal	10, 33, 53
Foussa	8, 49	" germs	10, 53, 33
Fox, English	7, 11, 49	" ivory models of	25
" grey	11, 49	" occlusion	53
Gadus	26	" permanent	56
Galeocerdo	31, 38	" pulp chambers	53
Ganoids	17, 20, 29, 30, 39	" roots of	16, 54
Garfish	15, 26, 40	" structure	33, 34
Garpike	39	" supplemental	16, 20, 21, 22, 55
Genet	8, 12, 50	" suppression of	55
Genetta vulgaris	8, 12, 50	" mandible, adult	10, 53
Gilt head	15, 40	" at birth	10, 53
Globe Fish	15, 20, 27, 28, 32, 40	" child	10, 53
Goat	27, 46	" Dinka native	19, 53
Goniophyllis crassidens	30, 42	" Eoanthropus (cast)	9, 54
Gorilla savagei	9, 10, 18, 53	" European	9, 53, 56
Guanaco	6, 14, 45	" foetal	10, 53
Guenon	10, 52	" Roman girl	19, 53
Guinea Pig	7, 12, 49	" skull, at birth	10, 53
Gum work	36	" Romano-British	18
Gyrodus hexagonus	30, 39	" child, 7 years	27, 53
Haddock	26, 40	" Eoanthropus	19, 32
Hake	7, 15, 26, 33, 40	" European	32, 53, 56
Halicore dugong	8, 20, 27, 44	" foetal	10
Hare	7, 12, 49	" South Sea Islander	18, 53
Hatteria	15, 41	" teeth, pathological conditions	23
Hedgehog	7, 13, 52	" alveolar abscess	24, 25, 56
Heidelberg man	9, 54	" cleft palate	24, 25, 56
Helodus didymus	30, 37	" dentigerous cyst	24, 56
Hemipristis	16, 31, 38	" epulis	24, 56
Herpestes ichneumon	8, 11, 50	" exostosis	25, 56
" griseus	11, 50	" hypertrophy of gums	24, 56
Homo Heidelbergensis	9, 54	" odontome	25, 56
Hominidæ	8, 9, 10, 18, 53	" osteomata	24, 56
Horse	6, 14, 17, 27, 29, 32, 33, 46, 47	" pyorrhœa alveolaris	23, 56
Howling monkey	10, 52	" salivary calculus	24, 56
Hippocampus	6, 15, 40	" sarcoma	24, 56
Hippopotamus amphibius	6, 13, 27, 29, 32, 33, 44, 47	" sequestrum	24, 56
" sivalensis	28, 47	" stomatitic	23, 56
Hippotragus leucophæus	14, 46	" syphilitic	24, 56
Human dentition	8, 9, 10, 53, 57	Hyæna vulgaris	10, 11, 17, 50
" teeth abnormalities	16, 20, 21, 22, 23, 24, 25, 55	" spelæa	10, 11, 17, 27, 29, 32, 51
		Hyænarctos insignis	28, 51
		Hybodus reticulatus	30, 37

INDEX—continued.

	PAGE
Hydrocyon goliath	20, 40
Hydromys chrysogaster	7, 12, 48
Hypotamys vectianus	28, 47
Hyperodapedon gordonii	17, 42
Hypsiprymnus	14, 43
Hyracoidea	6, 13, 46
Hyrax capensis	6, 13, 46
" syriacus	13, 46
Hystrix cristata	7, 12, 49
Ichthyosaurus	17, 26, 30, 42
Ichneumon	11
Iguana	16, 26, 41
Iguanodon	30, 42
Impressions	34, 36
Insectivora	7, 12, 51
Ischiodus	31, 38
Ivory Dentures	34
Jackal	11, 50
Kangaroo	14, 43
Kangaroo rat	14, 43
Key, dental	26
Koala	5, 14, 43
Knowles' flask	34
Lagostomus viscacha	7, 12, 49
Lamna	15, 26, 37
" appendiculata	31, 37
" elegans	31, 38
Lemur varius	8, 9, 52
Lemuroidea	9, 52
Lion	11, 19, 49
Leopard	11, 12, 19, 49
Lepidosteus	20, 39
Lepidotus	30, 39
Leporidae	7, 12, 49
Lepus cuniculus	7, 12, 49
" europæus	7, 12, 49
Leuciscus cephalus	15, 26, 40
Lizards	15, 16, 17, 26, 30, 33, 41, 42
Llama huanacus	6, 14, 45
Lophius piscatorius	15, 33
Lutra vulgaris	8, 11, 51
Lynx	8, 11, 12, 49
Macacus nemestrinus	8, 52
" radiatus	10, 52
Macropus minor	14, 43
" rufus	5, 14, 43
Macaque	10, 52
Macropithecus Markgrafi	8, 54
Man	8, 9, 18, 32, 53
Mandrill	9, 52
Manatee	27, 44

	PAGE
Manatus	27, 44
Mammoth	18, 33, 48
Marmoset	9, 52
Marsupials	5, 14, 43
Marten, pine	8, 11, 51
" beech	11, 51
Mastodon americanus	7, 18, 48
" Borsoni	7, 28, 48
" avernensis	28, 48
Mechanical dentistry	34, 35, 36
" articulators	34, 35, 36
" bites	34, 35, 36
" bridges	36
" crowns	36
" dentures	34, 35, 36
" " early forms	34
" flasks, casting	34, 35
" " swaging	34, 35
" materials used	34, 35, 36
" obturators	36
" splints	36
" trays, impression	34, 35, 36
Megalichthys Hibbertii	29, 39
Meles taxus	8, 11, 12, 51
Menodus	28
Merlucius vulgaris	15, 33, 40
Mesodon Hughii	30, 39
" Damonii	30, 39
Mesopithecus pentelici	54
Metatheria	5, 14, 43
Midas chrysoleucas	9, 52
Mole	7, 13, 52
Monkeys, American	8, 52
" Capuchin	8, 9, 52
" Catarrhine	9
" Guenon	10, 52
" Howling	10, 52
" Macaque	8, 10, 52
" Marmoset	9
" Mandrill	9
" Old World	9, 10, 52, 54
" Spider	9
" Vervet	8, 9, 10
" Teetee	9
" Platyrrhine Primitive	8, 54
Monodon monoceros	32, 44
Mosasaurus	30, 42
Mouse, field	12, 48
Mud fish	15, 39
Mongoose	8, 11, 50
Muntjac	14, 19, 45
Mus arvensis	12, 48
" decumanus	7, 12, 48
Mustela erminea	8, 12, 51
" foina	11, 51
" martes	8, 51

INDEX—continued.

	PAGE
<i>Mustela putorius</i>	8, 11, 51
" <i>vulgaris</i>	8, 11, 51
<i>Myliobatis</i>	15, 28, 38
" <i>Dixonii</i>	28, 39
<i>Myopotamus coypu</i>	12, 49
<i>Naia tripudians</i>	15, 41
Narwhal	32, 44
<i>Nasua coati mundi</i>	8, 12, 50
Night adder	33, 41
<i>Notidanus microdon</i>	31, 38
Obturator	36
<i>Odontaspis elegans</i>	16, 38
<i>Odontoceti</i>	5, 13, 44
<i>Odontopteryx</i>	17, 42
<i>Opisthoglypha</i>	15, 41
<i>Ophidia</i>	15, 16, 35, 41
<i>Opossum</i>	5, 14, 43
Orang utan	9, 19, 52
<i>Ornithodelphia</i>	5, 13, 27, 42
<i>Ornithorhynchus platypus</i>	5, 13, 27, 42
<i>Orodus ramosus</i>	30, 37
<i>Otodus obliquus</i>	16, 26, 31, 38
" <i>macrodon</i>	31, 38
Otter	8, 11, 51
<i>Ovis</i>	6, 14, 19, 46
Ox	6, 14, 27, 29, 32, 46, 47
<i>Oxyrhina hastates</i>	26, 31, 38
Paca	7, 49
<i>Palæichthyes</i>	15, 17, 37
<i>Palæotherium</i>	14, 28, 47
<i>Paradoxurus leucomystax</i>	11, 50
<i>Parapithecus Fraasi</i>	8, 54
Parrot fish	15, 40
Pearsall's flask	34
Peccary	6, 13, 45
<i>Perameles gunni</i>	5, 14, 43
<i>Perissodactyla</i>	6, 14
<i>Petaurus</i>	14, 43
<i>Phacochærus</i>	6, 15, 19, 27, 45
<i>Phalanger Cookii</i>	14, 43
" <i>maculatus</i>	5, 43
" <i>orientalis</i>	5, 43
" <i>vulpina</i>	14, 43
<i>Phascalartus fuscus</i>	5, 14, 43
<i>Phoca communis</i>	8, 11, 12, 19, 44, 51
<i>Pholidophorus</i>	17, 39
<i>Physeter macrocephalus</i>	5, 13, 44
<i>Phyllodus petiolatus</i>	30, 39
Pig	6, 13, 27, 45
Pike	15, 26, 40

	PAGE
Pittdown skull	9, 32, 54
Pine marten	11, 51
<i>Pinnipedia</i>	11, 12, 51
Pipe fish	15, 40
<i>Pithecanthropus</i>	8, 54
<i>Placodus gigas</i>	17, 42
<i>Plagiostoma</i>	15, 28, 29, 30, 37
Plates	34, 35, 36
<i>Platypus</i>	5, 13, 27, 42
<i>Platyrrhina</i>	8, 9, 52
<i>Plesiosaurus</i>	30, 42
Polecat	8, 11, 51
<i>Polyptychodon</i>	30, 42
Porcupine	7, 12, 49
Porpoise	5, 44
Port Jackson shark	15, 37
Prairie dog	11, 50
Predatory sharks	16, 31, 37, 38
Primates	8, 18, 52
<i>Pristis</i>	15, 20, 26, 32, 39
<i>Proboscidea</i>	6, 18, 20, 28, 32, 33, 47, 48
<i>Procavia syrica</i>	6, 46
<i>Propliopithecus</i>	8, 54
<i>Proteleidæ</i>	49, 50
<i>Proteles cristatus</i>	7, 12, 50
<i>Prototheria</i>	5, 12, 27, 42
<i>Psammodus</i>	30, 39
<i>Psephodus</i>	30, 37
<i>Pseudoscarus</i>	15, 40
<i>Pterodactylus crassirostris</i>	17, 42
<i>Pteropus medius</i>	7, 13, 52
<i>Ptychodus mammillares</i>	28, 31, 39
<i>Pycnodus</i>	17, 39
<i>Python sebae</i>	16, 41
Puff adder	16, 41
Puma	11, 12, 49
<i>Raia batis</i>	15, 26, 33, 38
" <i>clavata</i>	15, 38
Raii	15, 26, 28, 31, 33, 38, 39
Rabbit	7, 12, 13, 49
Rat, brown	7, 12, 48
" <i>Australian water</i>	7, 12, 48
Rattlesnake	20, 33, 41
Rays	15, 26, 28, 38
Reindeer	29, 47
Reptilia	15, 16, 17, 33, 40
Reptiles	15, 16, 17, 20, 33, 40
<i>Rhinoceros Asiatic</i>	6, 14, 27, 46
" <i>merkii</i>	29, 47
" <i>tichorhinus</i>	17, 29, 32, 47
" <i>woolly</i>	17, 29, 47
<i>Rhizodus</i>	29, 39
Rodentia	7, 12, 48
Rodents	7, 12, 48

INDEX—continued.

	PAGE		PAGE
Ruminantia	6, 14, 19, 45, 46	Sus scrofa	6, 13, 19, 27, 29, 45, 46
Ruminants	6, 14, 19, 45, 46	Syngnathus acus ..	15, 40
Sargus ovis	15, 40	Talpa europæa	7, 13, 52
Saurians	30, 42	Tapir	6, 27, 28, 46, 47
Saurocephalus	31, 39	Tapirus priscus	6, 27, 28, 46, 47
Saw fish	15, 20, 26, 32, 39	Teetee	9, 52
Sciurus bicolor	12, 48	Teleostei	15, 20, 26, 40
" indicus	7, 12, 48	Tenrecs	7, 52
Scyllium caniculum	15, 33, 37	Thecodont	30, 42
Sea bream	15, 40	Thornback Ray	15, 38
Sea horse	15, 40	Tetrodon	20, 27, 40
Sea wolf	15, 40	Tiger	7, 11, 19, 49
Sea urchin	33	Titanotherium	18, 28, 47
Seal	8, 11, 12, 19, 51	Trichechus rosmarus	8, 11, 27, 51
Selenodontia	6, 14, 19, 45, 46	Trichosurus	5, 43
Semnopithecus	10, 52	Tragelaphus sylvaticus	32, 46
Sharks	15, 16, 26, 29, 30, 37, 38	Tragulidæ	14, 45
" fossil	15, 16, 26, 28, 31, 37, 38	Tragus chevrotain	6, 14, 45
Sheep	6, 14, 19, 46	" javanicus	14, 45
Sheep's head fish	15, 40	Tuatera	15, 41
Shrew	7, 13, 51	Turtle	16, 26, 41
Silurian fish teeth	37	Ungulata	6, 13, 17, 19, 44, 45, 46
Simia satyrus	9, 19, 53	" vera	6, 13, 19
Simiidae	9, 10, 53	" sub-ungulata	6, 13, 46
Sirenia	27, 44	Ursidae	7, 10, 11, 17, 19, 29, 50, 51
Sivatherium	28, 47	Ursus japonicus	11, 60
Skate	15, 26, 33	" maritimus	7, 11, 50
Sloth	5, 13, 43	" malayanus	19, 50
Snakes	15, 16, 20, 26, 33, 41	" nigra	19, 50
Sorex vulgaris	7, 13, 51	" spelæus	11, 17, 29, 51
Sperm whale	5, 13, 44	" torquatus	10, 11, 50
Sphenodon punctatus	15, 41	Vervet monkey	8, 10, 52
Sphærodus gigas	30, 39	Vesperugo noctula	7, 51
Sphyræna	26, 40	Viperine snake	33, 41
Spider monkey	9, 52	Viscacha	7, 12, 49
Splints	36	Viverra civetta	12, 50
Spiny ant eater	5, 42	Viverridæ	49, 50
Springbok	32, 46	Vulture	20, 41
Squalodon	28, 44	Wallaby	5, 14, 43
Squirrel, English	12, 48	Walrus	8, 11, 27, 51
" Indian	7, 12, 48	Wart hog	6, 13, 19, 27, 45
Stentor chrysurus	10, 52	Weasel	8, 51
Stoat	8, 11, 12, 51	Whale, fossil	5, 28, 44
Strophodus magnus	17, 30, 37	" sperm	5, 13, 43
Sturgeon	26, 32, 39	" whalebone	5, 44
Sub ungulata	6, 13, 46	Woolly rhinoceros	17, 29, 47
Suidæ	6, 13, 19, 27, 29, 45, 46	Zygobatis	15, 38
Sus babirusa	13, 19, 45		
" cristatus	6, 13, 19, 27, 45		
" japonica	27, 45		
" longirostris	19, 27, 45		



